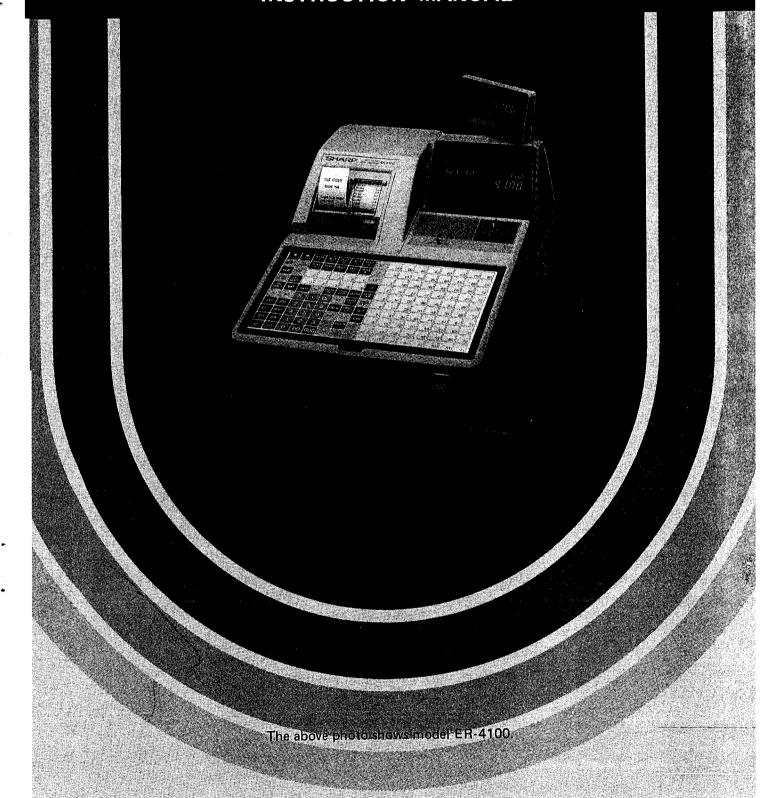


ELECTRONIC CASH REGISTER

ER-4100 ER-4110

INSTRUCTION MANUAL



MC-Service

If undue force is applied to the drawer, the cash register will become unstable.

Bescheinigung des Herstellers/Importeurs

(nur für die Bundesrepublik Deutschland und West-Berlin anwendbar)

Hiermit wird bescheinigt, daß der/die/das

• Elektronisches Kassensystem Modell ER-4100/4110

In Übereinstimmung mit den Bestimmungen der

Vfg. 1046/1984

funk-entstört ist.

Der Deutschen Bundespost wurde das Inverkehrbringen dieses Gerätes angezeigt und die Berechtigung zur Überprüfung der serie auf Einhaltung der Bestimmungen eingeräumt.

Sharp Electronics (Europe) GmbH

This apparatus complies with requirements of BS 800 and EEC directive 82/499/EEC.

Dieses Gerät stimmt mit den Bedingungen der EG-Richtlinien 82/499/EWG überein.

Cet appareil répond aux spécifications de la directive CEE 82/499/CEE.

Dit apparaat voldoet aan de vereiste EEG-reglementen 82/499/EEG.

Apparatet opfylder kravene i EF direktivet 82/499/EF.

Questo apparecchio è stato prodotto in conformità alle direttive CEE 82/499/CEE.

Αύτή ή συσκευή τησεί τίς προδιαγροφές τῆς ΕΕΟ ντιρεκτίβα 82/499/ΕΕΟ.

Este aparelho responde às especificações da directiva 82/499/CEE.

Este aparato cumple las especificaciones de la directriz de la CEE 82/499/CEE.

CAUTION:

For a complete electrical disconnection pull out the mains plug.

VORSICHT:

Zur vollständigen elektrischen Trennung vom Netz, den Netzstecker ziehen.

ATTENTION:

Pour obtenir une mise hors-circuit totale, débrancher la prise de courant secteur.

AVISO

Para una desconexión eléctrica completa, desenchufar el enchufe de tomacorriente.

VARNING:

För att helt koppla från strömmen, dra ut stickproppen.

INTRODUCTION

Thank you very much for your purchase of the SHARP Electronic Cash Register, Model ER-4100/4110.

Please read this Manual carefully before operating your machine in order to gain a full understanding of its functions and performance.

Please keep this Manual for further reference. It will help you, if you encounter any operational problems.

IMPORTANT

- Install your ER-4100/4110 in a location that is not subject to direct radiation, unusual temperature changes, high humidity or exposed to water sources.
 Installation in such locations could cause damage to the cabinet and the electrical components.
- The register should not be operated by an individual with wet hands.

 The water could seep into the interior of the ER-4100/4110 and cause component failure.
- When cleaning your register, use a dry, soft cloth. Never use volatile liquid, such as benzine and thinner.

The use of such chemicals will lead to discoloration or deterioration of the cabinet.

- The ER-4100/4110 register plugs into any standard wall outlet (local voltage ±10% AC). Other electrical devices on the same electrical circuit could cause the ER-4100/4110 to malfunction.
- If the register malfunctions, call your local dealer for service Do not try to repair the register yourself.

PRECAUTION

This Electronic Cash Register has a built-in memory protection circuit which is operated by rechargeable batteries.

As you know, all batteries will, in time, dissipate their charge even if not used.

Therefore to insure an adequate initial charge in the protection circuit, and to prevent any possible loss of memory upon installation, it is recommended that each unit be allowed to recharge for a period of 24 to 48 hours prior to use by the customer.

In order to charge the batteries, the machine must be plugged in and its power switch must be set to the "ON" position. This recharging precaution can prevent unnecessary initial service calls.

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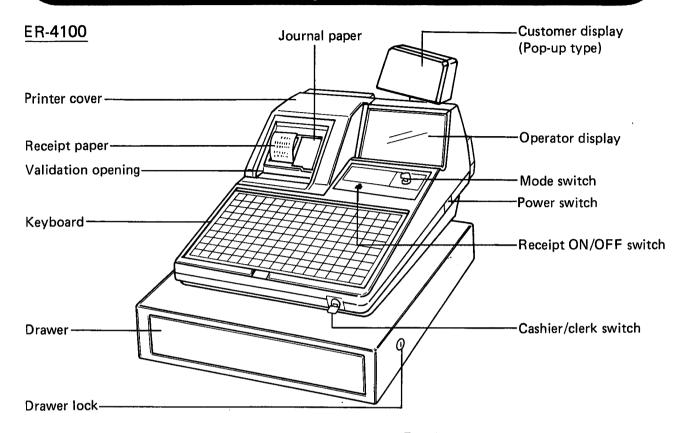
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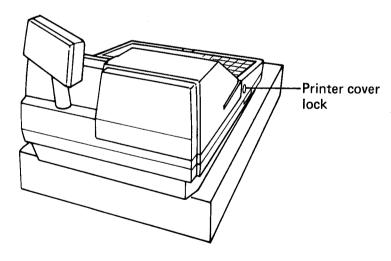
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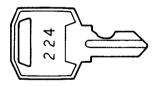
PHSICAL CHARACTERISTICS OF THE ER-4100/4110 REGISTER





For the machines delivered to those sales area that Sharp Electronics (Europe) GmbH covers, the drawer is an option.

Printer cover lock key



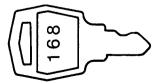
■ Printer cover lock

Lock: Turn

Turn 90 degrees counterclockwise.

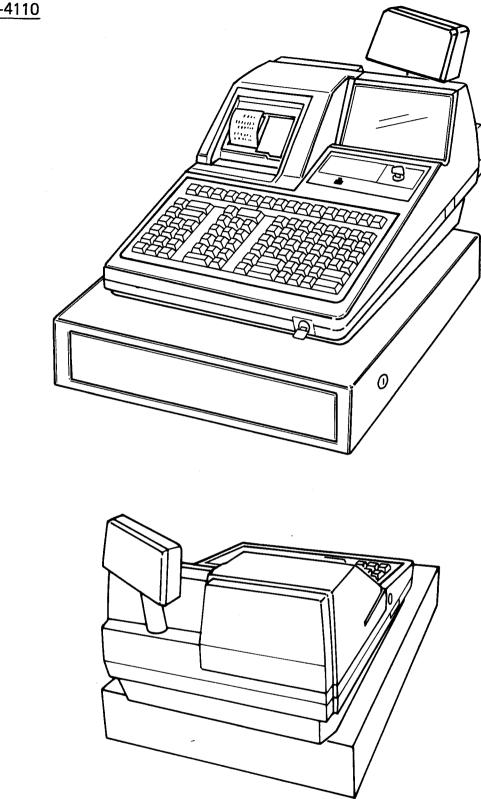
Unlock: Turn 90 degrees clockwise.

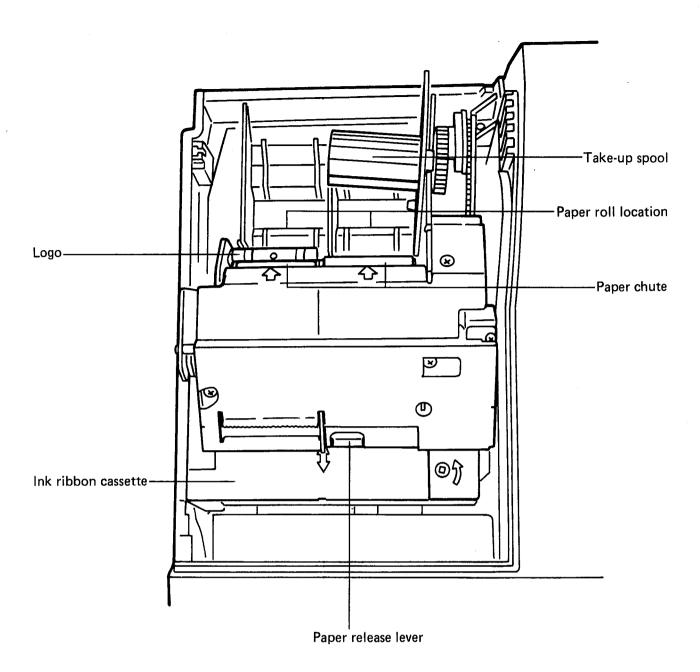
■ Drawer open key



Unlock: Turn 45 degrees clockwise

ER-4110





Used to load or unload the machine with paper roll (receipt and journal paper). Keep the lever down to take in or out the paper roll.

Note:

Do not attempt to take in or out the paper roll with this lever at the up position.

This may result in trouble.

KEYBOARD LAYOUT AND SWITCH AND KEY DESCRIPTIONS

1. Keyboard

(1) ER-4100 standard keyboard layout

RECEIPT	↑ JOURNAL	GUEST #	TEXT 5	TEXT 6	TEXT 7	TEXT 8	L1	10	20	30	40	50	60	70	80
RCPT	GC RCPT	TEXT #	TEXT 1	TEXT 2	TEXT 3	TEXT 4	L2	9	19	29	39	49	59	69	79
SLIP	VP	6	7	8	9	10	L3	8	18	28	38	48	58	68	78
RCPT SHIFT	GC COPY	1	2	3	4	5	#	7	17	27	37	47	57	67	77
VAT SHIFT	VAT	GLU	NC	TRANS IN	TRANS OUT	WITH	WITH	6	16	26	36	46	56	66	76
%1	%2	lacksquare	•	CL	ВТ	DEPO (+)	PRICE SHIFT	5	15	25	35	45	55	65	75
STS	⊝1	7	8	9	NBAL	DEPO (-)	CR2	4	14	24	34	44	54	64	74
ETS	RA2	4	5	6	AMT	EX1	CR1	3	13	23	33	43	53	63	73
РО	RA1	1	2	3	PLU/ SUB	DIFFER ST	CH1	2	12	22	32	42	52	62	72
RF	∞	0	00	000	NS	ST	TL	1	11	21	31	41	51	61	71

(2) ER-4110 standard keyboard layout

ACCEPT JUDINAL STILL STI	↑ RECEIPT	↑ JOURNAL	RCPT	RCPT SHIFT	GC RCPT	SLIP	VP	GC COPY	TEXT #	GUEST #	PRICE SHIFT	VAT	VAT SHIFT	STS	ETS	#
--	--------------	---------------------	------	---------------	------------	------	----	------------	-----------	------------	----------------	-----	--------------	-----	-----	---

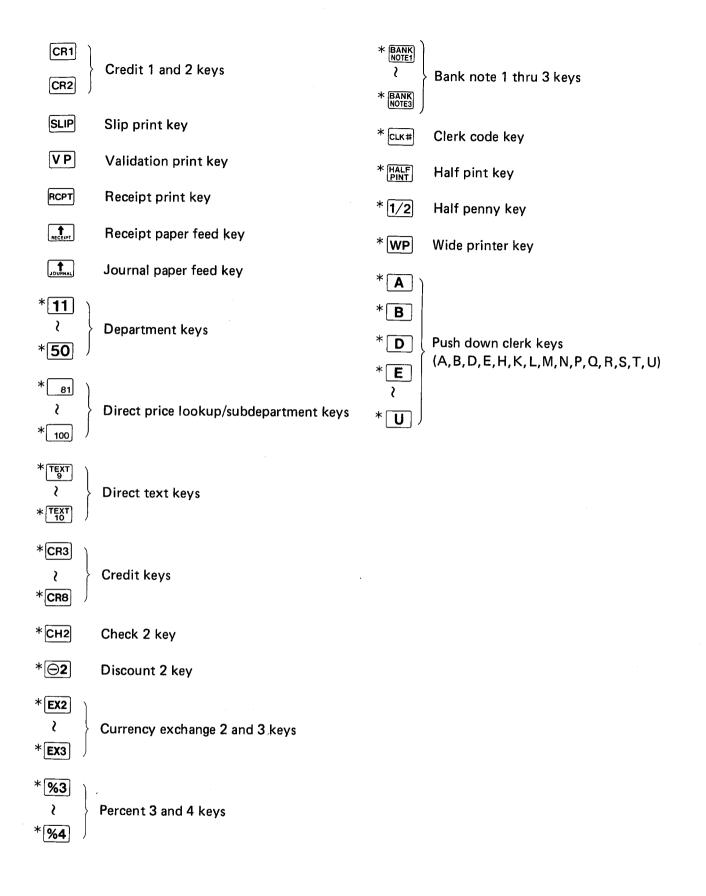
NC	NBAL				
ВТ	GLU				
TRANS IN	%1	%2			
TRANS OUT	⊝1	RA2			
WITH	PO	RA1			
WITH	RF	S			

AMT	PLU.	/SUB				
8	•	CL				
7	8	9				
4	5	6				
1	2	3				
()	00				

TEXT 6	6	10	6	12	18	DEPO (+)	DEPO (-)
TEXT 5	5	9	5	11	17	EX1	NS
TEXT 4	4	8	4	10	16	CR1	CR2
TEXT 3	3	7	3	9	15	DIFFER ST	CH1
TEXT 2		2	2	8	14	ST	
TEXT 1		1	1	7	13	TL	

Note: All the keys but the receipt paper feed and journal paper feed keys can be changed in their positions. If you want to change the layout, however, contact your dealer.

0		BT	Bill total key
9	Numeric keys	AMT	Amount key
00		EX1	Currency exchange 1 key
[000]	Destination in the last	TRNS	Transfer in key
	Decimal point key	TRNS	Transfer out key
⊗	Multiplication key	DEPO (+)	Deposit (+) key
CL	Clear key	DEPO (-)	Deposit (—) key
1 }	Department keys	PRICE SHIFT	Price shift key
10		WITH	With key
1)	Direct price lookup/subdepartment keys	WITH	Without key
80	Direct price tookup/subdepartment keys	STS	Start time sale key
PLU/SUB	Price lookup/subdepartment key	ETS	End time sale key
L1		PO	Paid-out key
L2	PLU's level shift keys	RA1	
L3		RA2	Received-on account 1 and 2 keys
%1	B	TEXT #	Text number key
%2	Percent 1 and 2 keys	TEXT	
⊝1	Discount 1 key	TEXT 8	Direct text keys
RF	Refund key	GC COPY	Guest check copy key
S	Void key	RCPT SHIFT	Receipt shift key
VAT	Value added tax shift key	GC RCPT	Guest check receipt key
VAT	Value added tax key	#	Non add key
NS	No sale key	DIFFER	Difference subtotal key
GUEST #	Guest number key	ST	Subtotal key
GLU	Guest look up key	TL	Total/Amount tendered key
NC	New check key	CH1	Check 1 key
NBAL	New balance key		



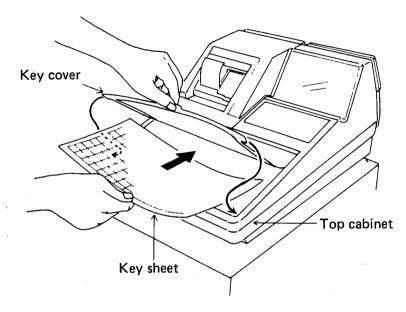
- Note 1: In case of the ER-4100, the standard keyboard is not equipped with those keys that are marked with (*).
- Note 2: In case of the ER-4110, the standard keyboard is not equipped with the $\boxed{000}$, $\boxed{\text{L1}} \sim \boxed{\text{L3}}$, $\boxed{\text{19}} \sim \boxed{\text{.80}}$, and $\boxed{\text{TEXT}} \sim \boxed{\text{TEXT}}$ keys and those keys that are marked with (*).

Attaching of the key sheet

The ER-4100 packing carton contains three types of key sheet: the standard keyboard layout, the blank key sheet, and that for programming.

You can write or type captions on the blank key sheet.

Insert the key sheet between the key cover and the top cabinet from the front as illustrated below.

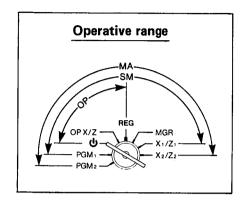


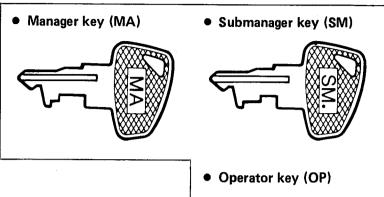
The standard key sheet can be replaced with either of the other two types.

- Note 1) Do not pull the key cover too tightly. The cover may be broken.
- Note 2) Replace the key sheet with new one if by chance it gets wet. Too long use of a wet key sheet may result in a machine trouble.
- Note 3) Be sure to use the SHARP-specified key sheets. Too thick or hard sheets can make you feel heavy on key operation, or worse, keying-in might be impossible.
- Note 4) Spread the key sheet properly under the key cover, without any fold or wrinkle, to ensure easy key-in operation.
- Note 5) If you require the key sheet, please consult your dealer.

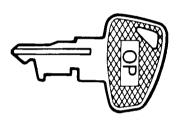
2. Mode switch and mode keys

The mode switch can be operated by inserting one of the three supplied mode keys — manager (MA), submanager (SM), and operator (OP) keys. The keys can be inserted or removed only when they are in the REG or v position.





* The power switch is positioned at the right side of the cabinet viewed from the front of the set. Set the power switch to the ON position prior to using your machine.



The mode switch has these settings:

U : This mode locks all register operations.

No change occurs to register data.

OP X/Z: This setting allows cashiers (or clerks) to take X or Z reports for their

sales information. It can also be used for displaying the time and printing

the employee arrival and departure times.

REG: For entering sales.

PGM1 : To program those items that need to be changed often: e.g., unit prices of

departments or PLUs and percentages.

PGM2 : To program all PGM1 programs and those items that do not require fre-

quent changes: e.g., date, time, or variety of register functions.

MGR : For manager's entries

The manager can use this mode to make entries that are not permitted to be made by cashiers (or clerks) — for example, after-transaction voiding

and override entry.

X1/Z1 : To take X/Z report for various daily totals.

X2/Z2 : To take X/Z report for periodic (weekly or monthly) consolidation or

daily totals.

3. Cashier and clerk keys

The ER-4100/4110 allows the operator to use cashier and clerk keys in the following four ways.

- Real clerk keys (standard 6 clerks/max. 15 clerks: A, B, D, E, ----, U)
- Push-button clerk keys (standard 6 clerks/max. 15 clerks: A, B, D, E, ----, U)
- Clerk code numbers (standard 6 clerks/max. 99 clerks)
- Real cashier keys + clerk code numbers (two cashier keys)

The standard machine has been shipped with the real clerk key system being programmed. If you want to change the cashier/clerk system, consult your local dealer.

(1) Real clerk keys

Fifteen keys for clerks A, B, D, E, H, K, L, M, N, P, Q, R, S, T, and U. Six keys are usable. (9 clerk keys are optionally available.)



• These keys serve to identify clerks.

Put one of the A thru U keys in the cashier/clerk switch.

The register prints the symbol that corresponds to the inserted clerk key. (The register prints the symbol "A" both on the receipt and on the journal when operated with the clerk key A.)

(2) Push-button clerk keys



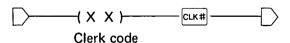
• These keys identify clerks.

Press any one of these keys.

The register prints the symbol that corresponds to it.

(3) Clerk code numbers

When a clerk code is entered by the procedure,

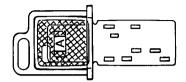


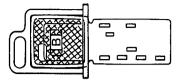
the register is ready to operate.

The register prints the clerk code.

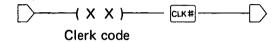
(4) Real cashier keys + clerk code numbers

Two cashier keys are usable.



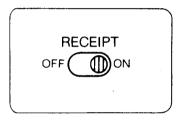


 When a cashier key is inserted into the cashier/clerk switch and a clerk code is entered by the procedure,



the register is ready to operate.

4. Receipt ON-OFF switch

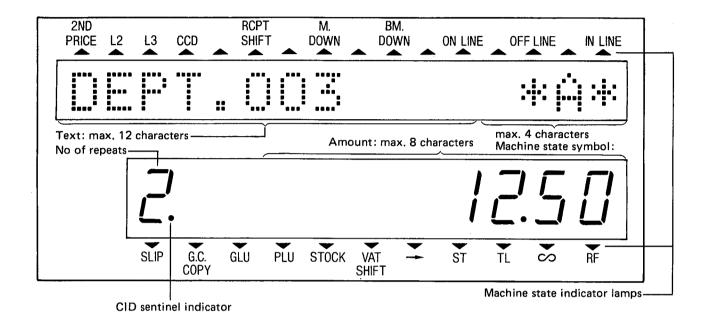


This switch permits or prohibits receipt printing. To permit printing on the journal alone without receipt, slide the switch to the OFF position and to permit printing on both the journal and the receipt, slide it to the ON position.

Note: Your register will print receipts regardless of the position of this switch except when the mode switch is in the REG position. This means that the receipt roll must be installed even when this switch is kept in the OFF position.

1. Operator display

The operator display consists of a 16-position dot matrix display (upper) and a 11-position 7-segment display (lower).



• Dot matrix display

Text:

A text such as department number, PLU number, or error

message appears in the leftmost 12 (max.) positions.

The text for each function appears in the leftmost 8 (max.)

positions.

Non-add code:

A non-add code entered appears in the full 16 positions.

Machine state symbol: A machine mode caption or guidance appears in the right-

most 4 (max.) positions.

Display	Description
* A *	REG mode (This display lights when the clerk key A is in the clerk switch with the machine being programmed for real clerk key system.)
M * A *	MANAGER mode (This display lights when the clerk key A is in the clerk switch with the machine being programmed for real clerk key system.)
V * A *	VOID mode (When the clerk key A is in the clerk switch.)
PGM1	PGM1 mode
PGM2	PGM2 mode
O * A *	OP X/Z mode (This display lights when the clerk key A is in the clerk switch with the machine being programmed for real clerk key system.)
X/Z1	X1/Z1 mode
X/Z2	X2/Z2 mode
VAL	This display lights when the machine is programmed for compulsory validation printing.
#	This display lights when the machine is programmed for compulsory number entry.
LOCK	This display lights when the clerk key is removed from the clerk switch.
SLIP	This display lights when the machine is programmed for compulsory slip printing.

• 7-segment display

Amount: An amount appears in the rightmost 8 (max.) positions.

Number of repeats for repetitive registrations:

The number of repeats is displayed from "2" and counted up with each repeat. When you've registered ten times, the display shows "0"

Example:
$$(2 \rightarrow 3 \rightarrow 4 \cdots 9 \rightarrow 0 \rightarrow 1 \rightarrow 2 \cdots)$$

 -: (Floating) Appears when an entry into a minus department or PLU/subdept. or of deduction, discount, or refund is made or corrected.

Machine state indicator lamps

RF: Lights up when the RF key is pressed or when a refund item entry is

made.

is made.

TL: Lights up when a transaction is finalized by pressing the TL, CR1

thru CRB, CH1, or CH2 key without any amount tendered entry.

ST: Lights up when subtotals are displayed.

→: Lights up whenever the change due appears in the display or when

the total sale amount is negative.

VAT SHIFT: Lights up when the VAT status is shifted.

STOCK: Lights up when the stock quantity is found negative by checking.

PLU: Lights up when a PLU/subdepartment registration is performed.

GLU: Lights up when the guest lookup or previous balance lookup func-

tion is in use.

G.C. COPY: Lights up while the guest check copy function is performed.

SLIP: Lights up when the SLIP key is pressed (in alternative printing) or

when slip printing is compulsory.

2ND PRICE: Lights up when the PLU price level is shifted to 2nd price.

L2, L3: Lights up when a second or third level direct PLU is selected.

CCD: Lights up during the execution of compulsory cash/cheque declara-

tion.

RCPT SHIFT: Lights up when the receipt shift key is pressed.

•: Appears right below the eleventh place when the cash in drawer

(Sentinel lamp) amount exceeds a programmed sentinel amount. The sentinel check

is performed for the total cash in drawer.

ON LINE: Lights up during online communication.

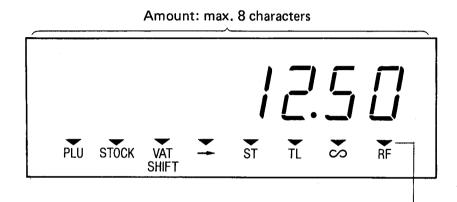
OFF LINE: Lights up when the machine is in the offline mode.

IN LINE: Lights up during inline communication.

BM. DOWN: Lights up while the back-up master is out of order.

M. DOWN: Lights up while the master is out of order.

2. Customer display (7-segment display)



Machine state indicator lamps*

^{*} These lamps light up in the same manner as the machine state indicator lamps situated in the 7-segment display of the operator display.

GENERAL INSTRUCTIONS

There are a few things you should keep in mind when programming the ER-4100/4110. The following sections are considered general instructions because they apply to the majority of jobs and procedures contained in this manual. If you take the few minutes to read these, you might save yourself some time and aggravation when programming.

Entering numbers	
When entering the	job number or numbers as part of a procedure, use the numeric key
It contains the dec	imal kev and the kev used in all procedures.

To change memory

To change the memory of the machine, always press the decimal • key after entering the job number.

Reading a program

To take a reading of a program, that is printed on the register printer, do not press the decimal • key as indicated in the procedure. After you press the TL key, the reading is printed on the register printer.

Entering options as a part of a procedure

In procedures that allow entry of multiple options, e.g., A B C D, <u>leading zeros are not required</u>; however, <u>trailing zeros are required</u>. In the A B C D example, if you wanted to program a 1 for the C option, you would enter 10. (Leading zeros for A and B are not required; trailing zeros are required.)

Reading and entering key operations

You'll notice that there's an illustration for each job entitled — Key operation. What that illustration shows is how you would enter the associated example into the machine, using the numeric and alpha key.

The key operation for setting the register number is listed as:

In (2) above, you would enter 123 (for the sample register number) and the press the TL key. This completes the procedure.

In most cases you end a procedure by pressing the TL key.

Recovering from an error message

If you happen to get an error beep and message when programming, to recover and correct the condition, simply press the CL key. You'll notice that the error message is cleared from the display and you can continue programming.

HOW TO PROGRAM ALPHANUMERIC CHARACTERS

Use the accompanying programming key sheet to key in numbers, letters and symbols. Using the assigned touch keys, it is easy to program alphabetical letters as well as symbols.

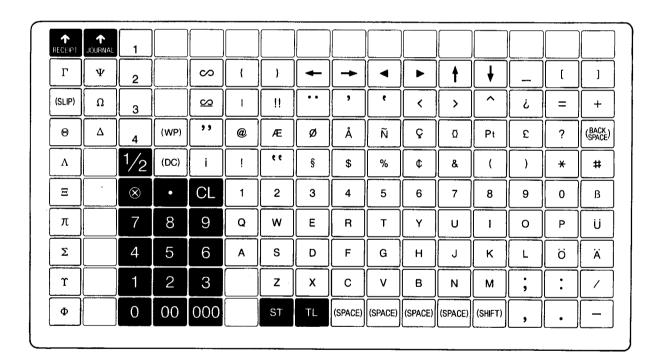
- Numerals, letters and symbols are programmable simply by pressing the touch keys.
- Double-size characters can be made by using the (DC) key.

Example: To program the word "SHARP" in double size, do the following key-in.

(DC) S (DC) H (DC) A (DC) R (DC) P

• In this layout there are all the keys required for programming. So you can do every kind of programming on this key sheet.

Programming key sheet (ER-4100)



Note 1) The shaded keys () cannot be used as a character key.

Note 2) The (DC) means double-size character code and this key is used for double-size character programming.

Programming key layout (ER-4110)

		+	_	#	*	1	2	3	4	5	6	7	8	9	0
		(∞)	(∞)	(;)	(:)	(,)	(,)	(")	(!!)	(!)	(1)	({)	(1)	(()	(>)
۵	(")	,,	(+)	%	(§)	(DC)	(^)	A	В	С	D	E	F	G	н
ß	(*)	,	(+)	-	<u> </u>		(3)	I	J	κ	L	М	N	0	Р
Г	5	Φ	(▶)				(?)	Q	R	s	Т	U	٧	w	х
Δ	π	Ψ	(◄)				(_)	Υ	z	Æ	ø	Å	Ñ	ç	(BACK) (SPACE)
Θ	Σ	Ω	(†)				(=)	((\$)	(SPACE)	Ä	Ü	ö	(I)	
Λ	Υ	/	(∤)				(¢))	(@)	(SHIFT)	Pt	£	&	(])	

Note 1) The (DC) means double-size character code and this key is used for double-size character programming.

Note 2) The keys are optionally available.

PROGRAMMING

Your machine allows you to program in two modes: PGM1 and PGM2. The PGM1 mode is for programming those items that need to be changed often: unit prices of departments/PLUs, and percentages. The PGM2 mode is used for programming all PGM1-mode programs and those items that require less frequent changes: date, time, tax rate, and the functions of each key.

We describe below the programming or setting procedures of various items. Program every item necessary for your store following the appropriate procedures.

* To set the mode switch to the PGM1 position, use the manager or submanager key; and to set to the PGM2 position, use the manager key.

Preparations for programming

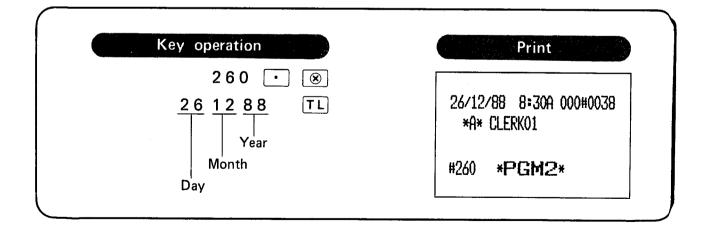
- 1. Plug your machine into a standard wall outlet.
- 2. Put the manager or submanager key in the mode switch and turn it to the PGM1 or PGM2 position depending upon the programming you are about to do.
- 3. Put the clerk (or cashier) key in the cashier/clerk switch.
- 4. Check to see whether both journal and receipt rolls are present in the machine. If they are missing, install journal and receipt rolls correctly.
- 5. Program necessary items into your machine.

1. Setting the date and time (PGM2 mode)

(1) Setting the date

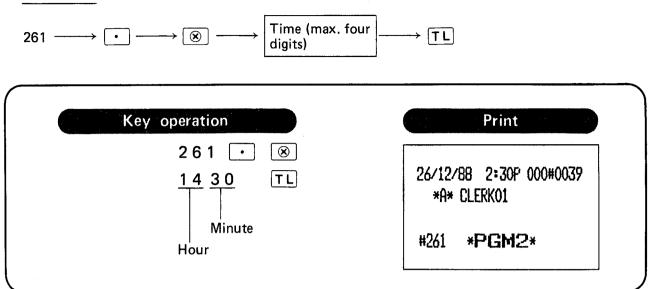






(2) Setting the time

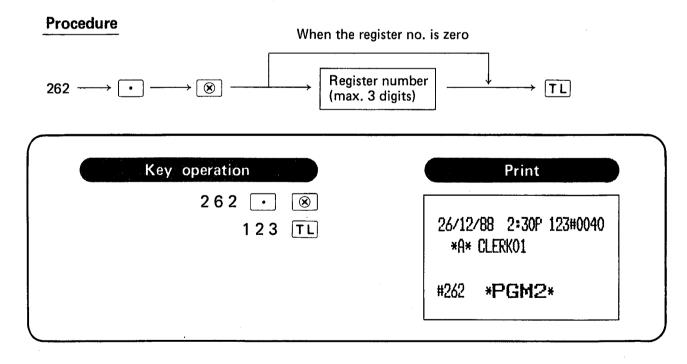
Procedure



Note: Your machine can be programmed to display and print the time on the 24-hour system.

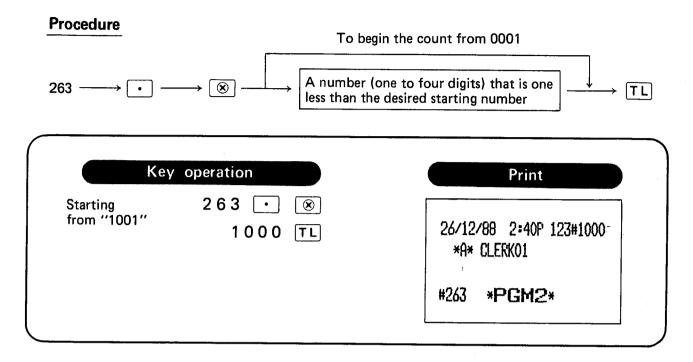
2. Setting the register number (PGM2 mode)

When your store has two or more registers, it is practical to set separate register numbers for their identification. You may set them in a maximum of three digits.



3. Setting the consecutive number (PGM2 mode)

The consecutive number is increased by one each time a receipt is published. Enter a number (one to four digits) that is one less than the desired starting number.



4. Programming for departments

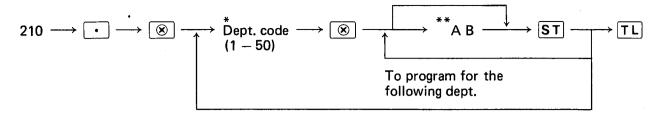
Your machine allows you to perform the following programming for each department.

(1) Functional programming (PGM2 mode)

- ① Single/double/SICS (single-item cash sale)
 - The programming of "single" or "double" is significant only when the receipt is of "Single/double", "Single/double + total" or "Single/double + addition mode" type.
 - If entries are made for the departments which SICS has been assigned to when the receipt is of "Addition" type, these departments serve as SICS departments only when a PBAL entry or other department entry is not carried out. In other cases, the departments serve in the same manner as ordinary departments.
- ② Four types of unit price entry You may select one of the following four types of unit price entry for each department.
 - (a) Open and preset
 - (b) Preset only
 - © Open only
 - d Inhibit department key

Procedure

When A and B are all zeroes.



* Dept. code: Standard 10 departments/max. 50 departments.

**

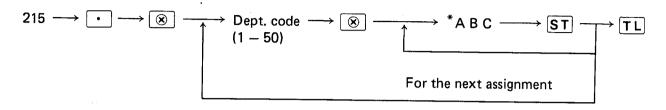
	Item	Entry	
		Single-item cash sale	2
Α	Single/double/SICS	Double receipt	1
		Single receipt	0
		Open and preset	3
D	T	Preset only	2
В	Type of unit price entry	Open only	1
		Inhibit	0

Key operation	Print
210 · · · · · · · · · · · · · · · · · · ·	#210 *PGM2*
10 ⊗ 2 ST TL	*D01 0.00 DPT.O1 0000000 SINGL KPO01 LM18 OP&PR G 01 C 0 *D10 0.00 DPT.1O 0000000 SINGL KPO01 LM18 PR G 01 C 0

(2) Assigning departments to groups (commission/sign & grouping) (PGM2 mode)

- \bullet Your machine allows you to assign a commission group (1 3) to each department.
- You can assign departments to a maximum of 9 groups.

Procedure



*A: Commission group

0-3 (0 = no commission)

BC: Dept. (+)

1-9 (group 1 thru group 9)

Dept. (-)

10

Hash (+) dept.

11

Key operation

215 • 8

1 🔞

3 ST

5 🛞

106 ST

TL

Print

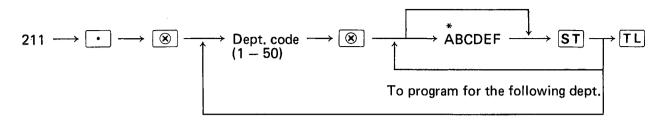
#215 *PGM2* *D01 0.00 DPT.01 000000 SINGL KPO01 LM18 OP&PR G 03 C 0 *D05 0.00 DFT.05 000000 SINGL KPO01 LM18 OP G 06 C 1

(3) Programming of tax status (PGM2 mode)

Program a tax status (taxable 1 to 6) for each department.

Procedure

When A thru F are all zeroes.



*A: Taxable 6

To select taxable 6, enter 1; and to select another tax status, enter 0.

B: Taxable 5

To select taxable 5, enter 1; and to select another tax status, enter 0.

C: Taxable 4

To select taxable 4, enter 1; and to select another tax status, enter 0.

D: Taxable 3

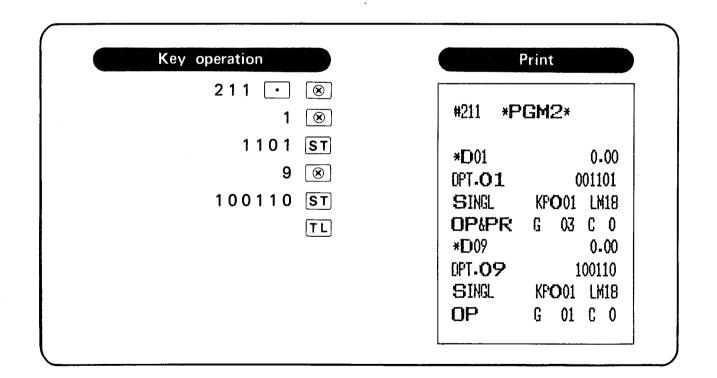
To select taxable 3, enter 1; and to select another tax status, enter 0.

E: Taxable 2

To select taxable 2, enter 1; and to select another tax status, enter 0.

F: Taxable 1

To select taxable 1, enter 1; and to select another tax status, enter 0.



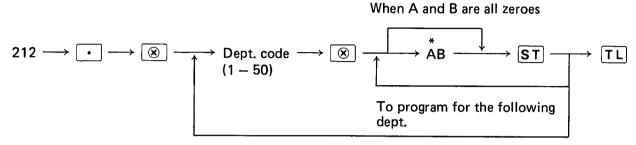
(4) Setting a limit amount (HALO) of entry (PGM2 mode)

You can set upper limit amounts (HALO: High Amount Lockout) for each department.

The limit is effective for the REG-mode operations and can be overridden in the MGR mode.

HALO limit is represented by two figures as follows.

Procedure

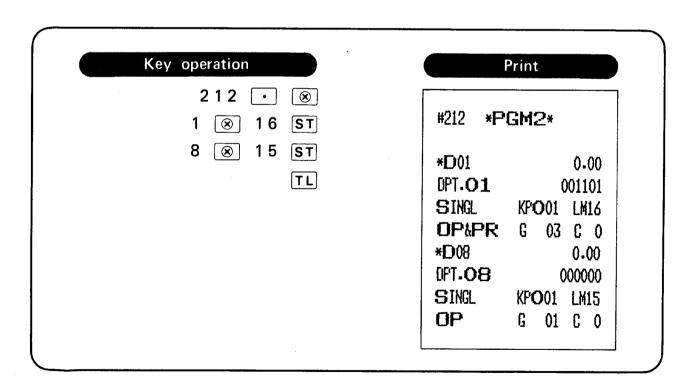


*AB is the same as $A \times 10^{B}$.

A: Significant digit (1 through 9)

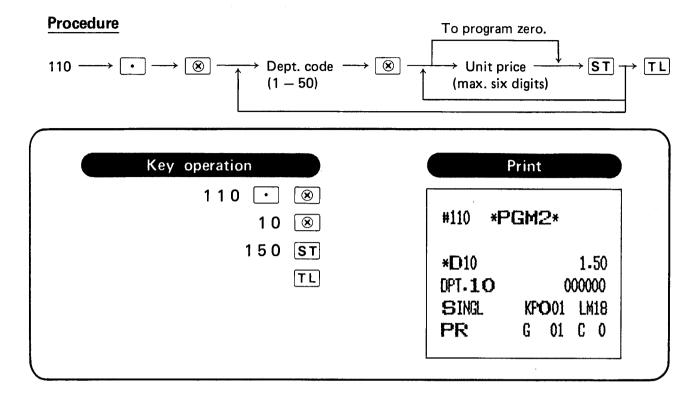
B: 0 through 8

For example, presetting 14 (*100.00) here means that amount entries up to *99.99 are allowed in REG mode. (In this case, HALO limit is *99.99)



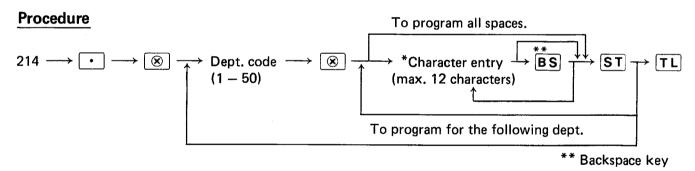
(5) Programming of unit prices (PGM1 or PGM2 mode)

Program a unit price for each department.



(6) Programming of department text (PGM2 mode)

You can program a maximum of 12 characters for each department.



*: The character entry can be achieved either by using character keys or by entering character codes.

1) When entering characters by using character keys:

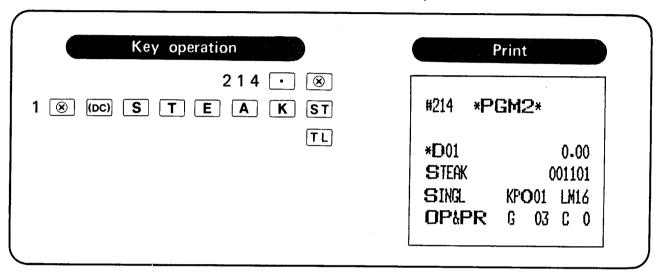
- Find out desired character key(s) on the alphanumeric key pad and press the key(s).
- If you press the (DC) key (double-size character key) before pressing a character key, that character is printed in double size.

2) When entering characters by using corresponding character codes (see the alphanumeric character code table.)

$$ZZZ \longrightarrow \boxed{00}$$

ZZZ is a character code.

• When entering characters by using character keys:



• When entering characters by using character codes:

Key operation	Print				
214 · 🛞 1 🛞	#214 *P GM 2*				
11 00 083 00 084 00 9 00 065 00 075 00 ST TL	*D01 0.00 STEAK 001101 SINGL KPO01 LM16 OP&PR G 03 C 0				

ALPHANUMERIC CHARACTER CODE TABLE

CODE	Char.	CODE	Char.	CODE	Char.	CODE	Char.	CODE	Char.	CODE	Char.
224	§	044	,	069	Е	094	^	119	w	152	Q
225	ä	045	_	070	F	095		120	×	153	é
226	ö	046	•	071	G	096	۲	121	у	154	è
227	ü	047	/	072	Н	097	а	122	Z	155	Pt
228	æ	048	0	073	l	098	b	123	-	156	i
229	φ	049	1	074	J	099	С	124		157	Ñ
230	å	050	2	075	Κ	100	d	125	1	158	ò
231	É	051	3	076	L	101	е	126	β	159	£
232	••	052	4	077	М	102	f	127	¢	240	Γ
233	[053	5	078	Ν	103	g	128	!!	241	Δ
234]	054	6	079	0	104	h	135	←	242	Θ
235	ñ	055	7	080	П	105	i	136	→	243	Λ
028	1	056	8	081	Q	106	j	137	S	244	$\frac{\square}{\square}$
032	(SPACE)	057	9	082	R	107	k	138	<u>S</u>	245	π
033	!	058		083	S	108	1	139	•	246	Σ
034	"	059	•	084	Т	109	m	140		247	Υ
035	#	060	<	085	U	110	n	143	+	248	Φ
036	\$	061	=	086	V	111	0	144	Ç	249	Ψ
037	%	062	>	087	W	112	р	145	0	250	Ω
038	&	063	?	088	X	113	q	146	ني	251	DC
039	,	064	@	089	Y	114	r	147	ù	133	1/2
040	(065	Α	090	Z	115	S	148	à		
041)	066	В	091	Ä	116	t	149	Æ		
042	*	067	С	092	Ö	117	u	150	Ø		
043	+	068	D	093	Ü	118	٧	151	Å		

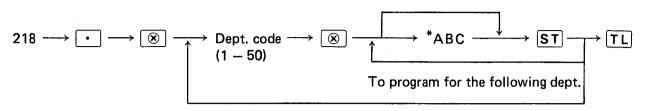
DC: Double Character Code

(7) Assigning print stations to departments (PGM2 mode)

• When you use a remote printer (kitchen printer), consult your local dealer.

Procedure

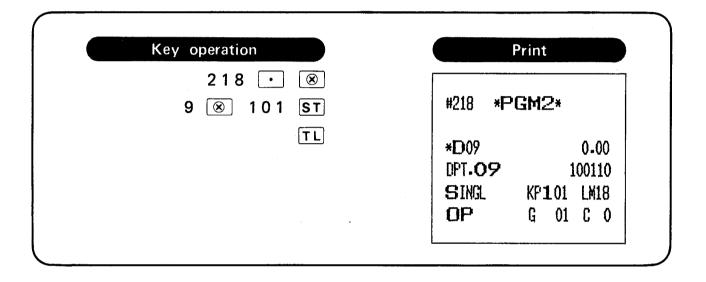
When A thru C are all zeroes.



*A: In-line remote printer number = 0 thru 9 (0 = no output)

B: Printing on on-line remote printer Yes/No = 1/0

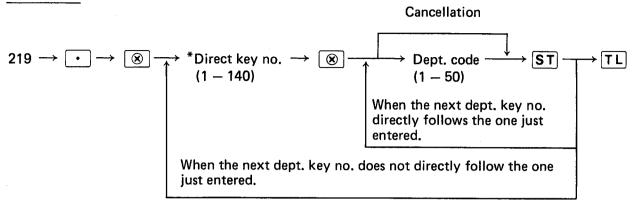
C: Printing on receipt Yes/No = 1/0



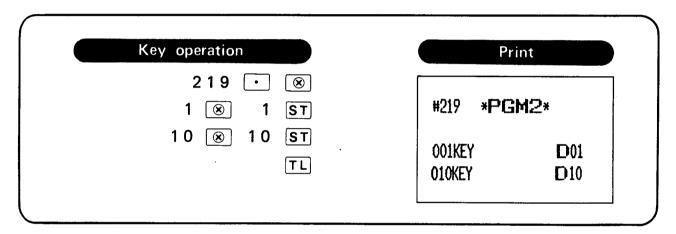
(8) Positioning of department keys (PGM2 mode)

Assign department codes to direct (menu) keys.

Procedure



* Direct key no.: 1 - 140



5. Programming for PLUs

A standard model is equipped with 100 PLUs.

Your machine has two kinds of PLU registration ways.

Direct PLU registration: Accomplished by depressing item key (direct PLU key)

directly.

Indirect PLU registration: Accomplished by making an entry of PLU code, same as

utilized in the current models.

Each PLU requires you to program the following.

PLU code (four digits)

PLU type (PLU, subdepartment, time PLU, or delete mode)

- (i) If the PLU mode (i.e. automatic preset amount entry) is selected, individual PLU entries can be made by entering the assigned code and depressing the PLU/SUB key (or by depressing a direct PLU key).
- (ii) If the subdepartment mode is selected, the entry of the assigned code and depression of the PLU/SUB key must then be followed by the entry of a unit price.
- (iii) If the time PLU mode is selected, a corresponding PLU is used for time unit sale with depression of the STS (or ETS) key.
- (iv) If the delete mode is selected, data programmed for each PLU is deleted.

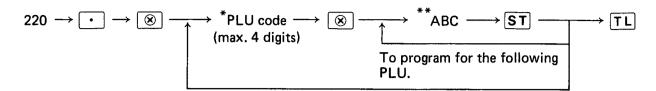
• Associate department

When a PLU is associated with a department, the following functions of the PLU depend on the programming for the department.

- (i) Sign & grouping (group 1 thru group 9)
- (ii) Single item cash sale/double receipt/single receipt
- (iii) HALO (for subdepartment only)
- Item label (12 characters)
- First unit price and second unit price (max. six digits each)
- PLU level start number
- Tax status
- Stock quantity (max. seven digits)/minimum stock (max. six digits)
- Commission group (1 thru 3)
- Set PLU (up to 6 PLUs can be linked to each set PLU.)
- Print station
- Positioning of direct PLU keys
- Opening time (usable time range of the time PLU entry)

(1) Definition of PLU codes and department assignment (PGM2 mode)

Procedure



*PLU code: 1 thru 9999 (free code)

**A: PLU type

To prohibit PLU/subdept., enter 0.

To select the subdept. mode, enter 1.

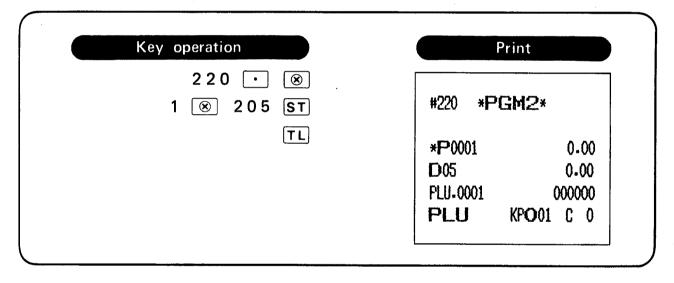
To select the PLU mode, enter 2.

To select the time PLU mode, enter 3.

To select the delete mode, enter 4.

BC: Associate department code

Note: These parameters also can be programmed for a range of PLUs. (see 5. (13))

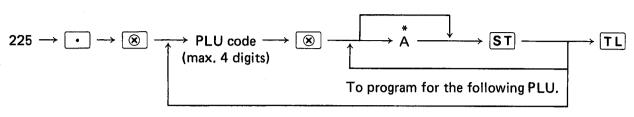


(2) Assigning of PLUs to commission groups (PGM2 mode)

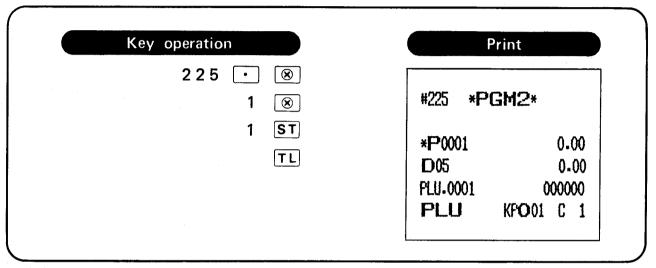
You can assign PLUs (or subdepartments) to commission groups

Procedure

No commission



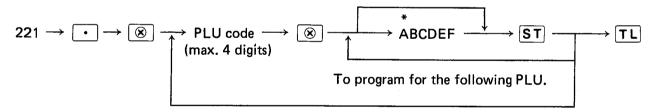
*A: Commission group = 0-3 (0 = no commission)



(3) Programming of tax status (PGM2 mode)

Procedure

When A thru F are all zeroes.



*A: Taxable 6

To select taxable 6, enter 1; and to select another tax status, enter 0.

B: Taxable 5

To select taxable 5, enter 1; and to select another tax status, enter 0.

C: Taxable 4

To select taxable 4, enter 1; and to select another tax status, enter 0.

D: Taxable 3

To select taxable 3, enter 1; and to select another tax status, enter 0.

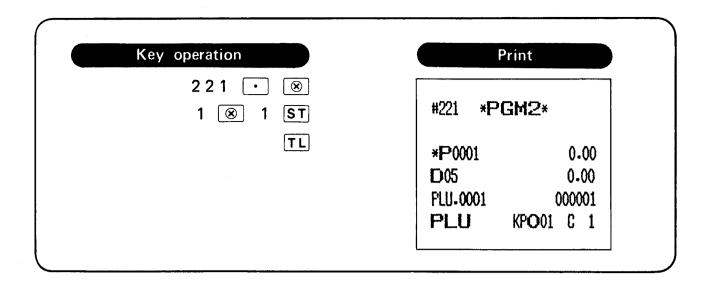
E: Taxable 2

To select taxable 2, enter 1; and to select another tax status, enter 0.

F: Taxable 1

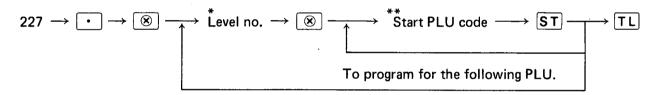
To select taxable 1, enter 1; and to select another tax status, enter 0.

Note: These parameters also can be programmed for a range of PLUs (see 5.(13))



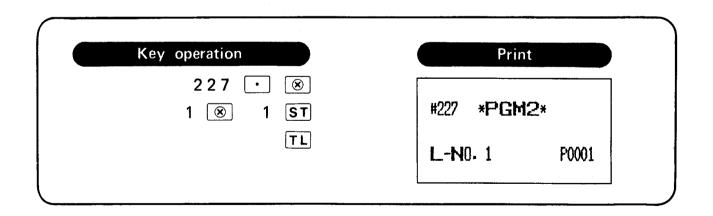
(4) Programming of PLU level start codes (PGM2 mode)
You can program the start PLU code for each PLU level.

Procedure



*Level no.: 1 thru 3

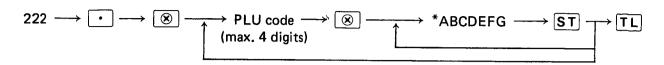
**Start PLU code: 1 thru 9999



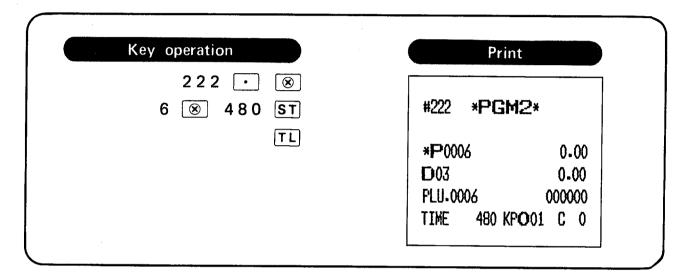
(5) Programming of the opening time range (PGM2 mode)

Your machine prints the operating ratio of each time PLU to the opening time range in PLU reports.

Procedure



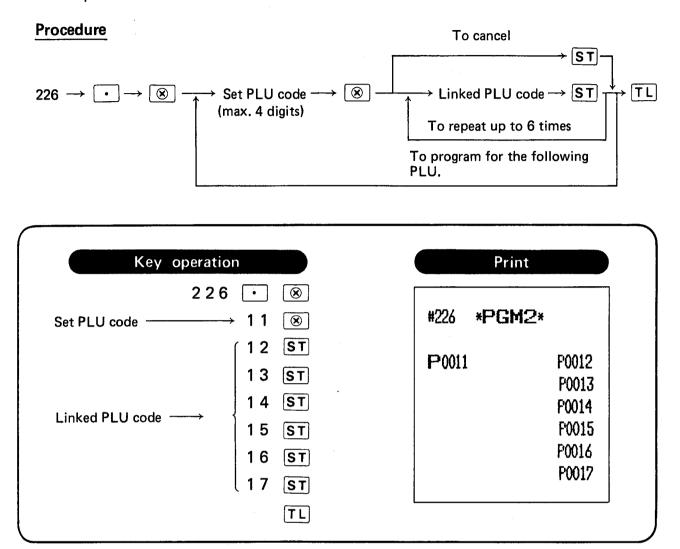
*ABCDEFG: Opening time range (in minutes) 1 thru 9999999



(6) Programming of set PLUs (PGM2 mode)

When two or more menu items, consisting of some PLUs, are to be programmed together, set PLUs should be specified.

Up to 6 PLUs can be linked to each set PLU.



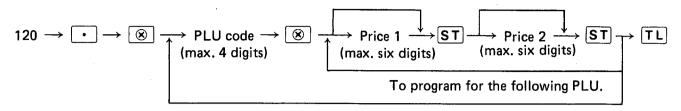
- Note 1) Each linked PLU can be programmed in two or more set PLUs.
- Note 2) Programming various parameters (e.g. associate dept., unit price, text...) of the set PLU is carried out the same way as for ordinary PLU.

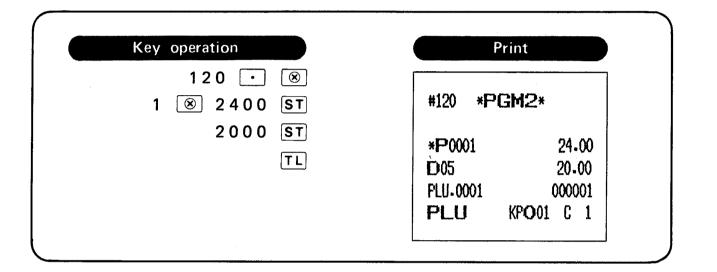
(7) Programming of unit prices (PGM1 or PGM2 mode)

You can program two unit prices for each PLU.

Procedure

To keep the old price To keep the old price



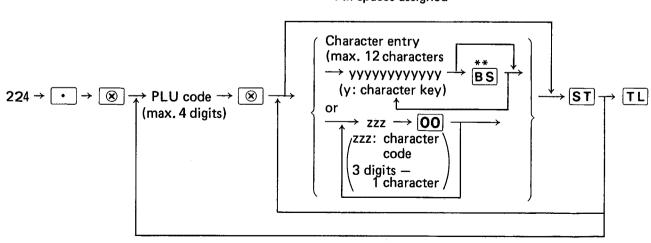


(8) Programming of PLU text (PGM2 mode)

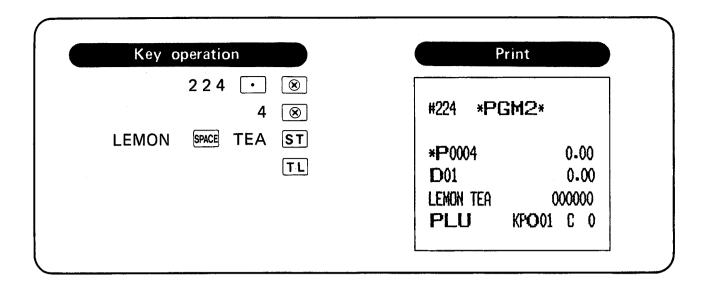
You can program a maximum of 12 characters for each PLU.

Procedure

All spaces assigned



** Backspace key



(9) Assigning print stations to PLUs (PGM2 mode)

• When you use a remote printer (kitchen printer), consult your local dealer.

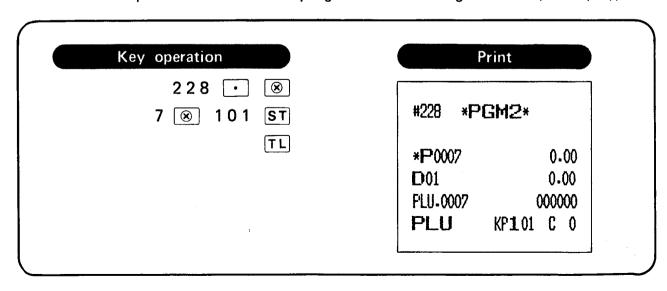
Procedure

*A: In-line remote printer number = 0 thru 9 (0 = no output)

B: Printing on on-line remote printer Yes/No = 1/0

C: Printing on receipt Yes/No = 1/0

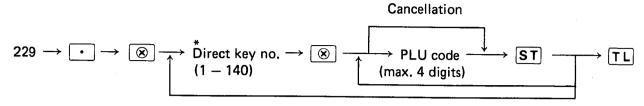
Note: These parameters also can be programmed for a range of PLUs (see 5. (13))



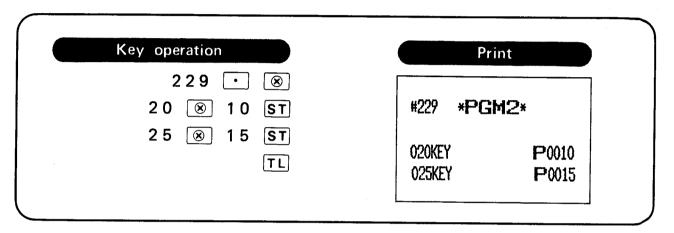
(10) Positioning of direct PLU keys (PGM2 mode)

You can assign PLU codes to fixed keys and use those keys as direct PLU keys.

Procedure

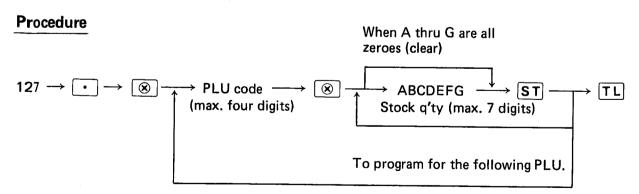


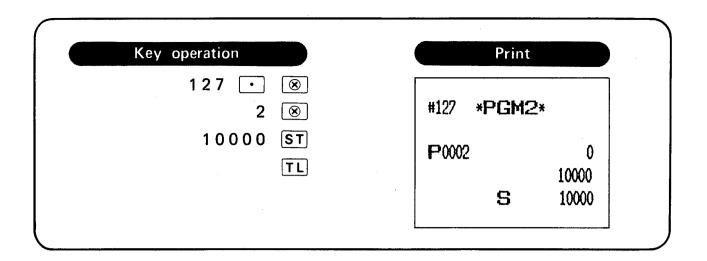
*Direct key no.: 1 - 140



(11) Programming of stock quantity (PGM1 or PGM2 mode)

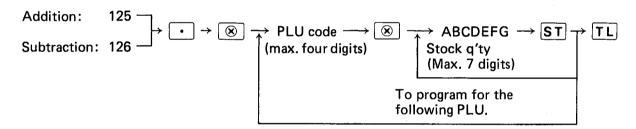
• Assigning a new stock quantity (overwrite)



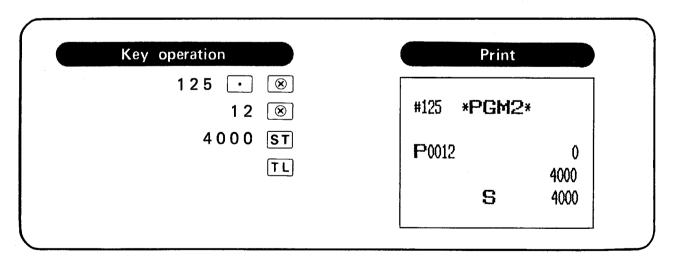


• Adding or subtracting a stock quantity

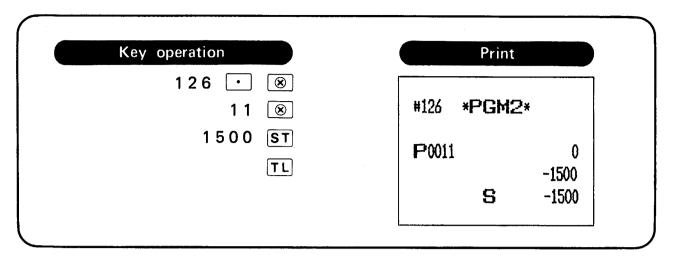
Procedure



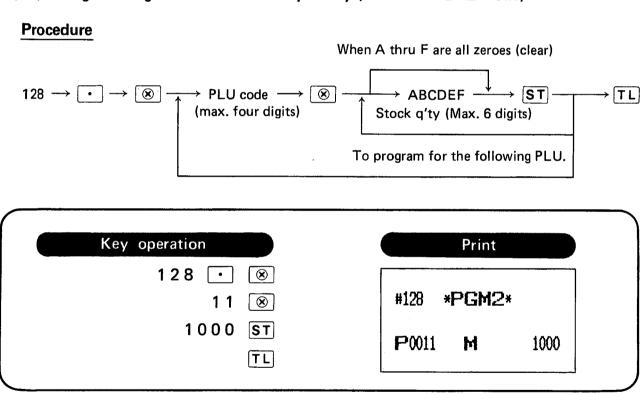
Adding the stock quantity



Subtracting the stock quantity



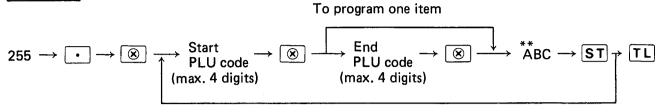
(12) Programming of minimum stock quantity (PGM1 or PGM2 mode)



(13) Programming for a range of PLUs (PGM2 mode)

• Definition of PLU codes and department assignment

Procedure



A: PLU type

To prohibit PLU/subdept., enter 0.

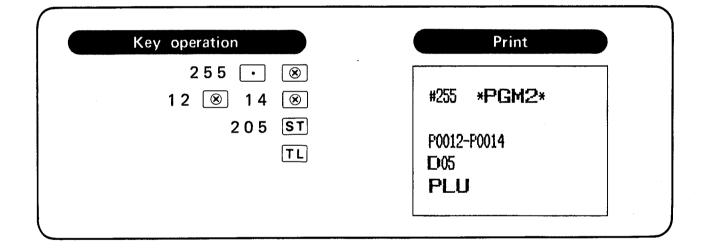
To select the subdept. mode, enter 1.

To select the PLU mode, enter 2.

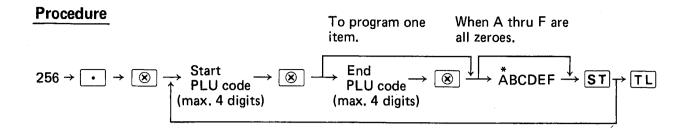
To select the time PLU mode, enter 3.

To select the delete mode, enter 4.

BC: Associate department code



• Programming of tax status



*A: Taxable 6

To select taxable 6, enter 1; and to select another tax status, enter 0.

B: Taxable 5

To select taxable 5, enter 1; and to select another tax status, enter 0.

C: Taxable 4

To select taxable 4, enter 1; and to select another tax status, enter 0.

D: Taxable 3

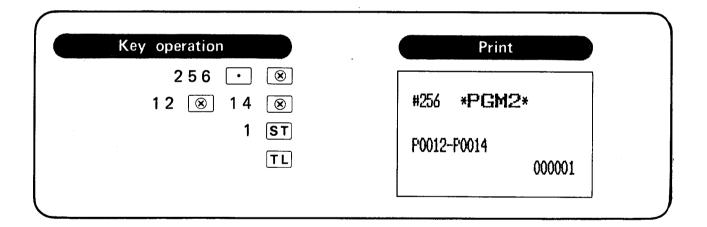
To select taxable 3, enter 1; and to select another tax status, enter 0.

E: Taxable 2

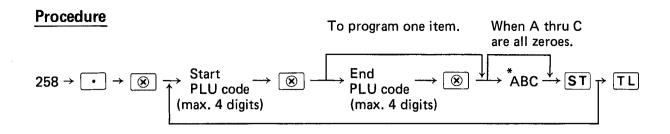
To select taxable 2, enter 1; and to select another tax status, enter 0.

F: Taxable 1

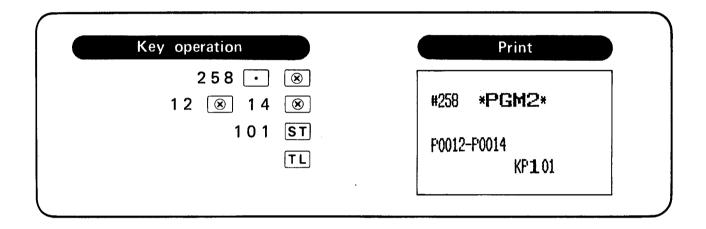
To select taxable 1, enter 1; and to select another tax status, enter 0.



• Assigning print stations to PLUs



- *A: In-line remote printer number = 0 thru 9 (0 = no output)
- B: Printing on on-line remote printer Yes/No = 1/0
- C: Printing on receipt Yes/No = 1/0



(14) Programming of time unit parameter (PGM2 mode)

Procedure

 $223 \longrightarrow \boxed{\bullet} \longrightarrow \boxed{\otimes} \longrightarrow *ABCD \longrightarrow \boxed{TL}$

*A: Multiple entry of time PLU (that is already in use on another guest check)

allowed/disallowed = 1/0

BC: Time rounding range (in minutes) 1 thru 60

D: Rounding method raising to a unit/disregarding = 1/0

Key operation	Print
223 🕟 🛞	
151 TL	#223 *P GM2 *
	0 15 1

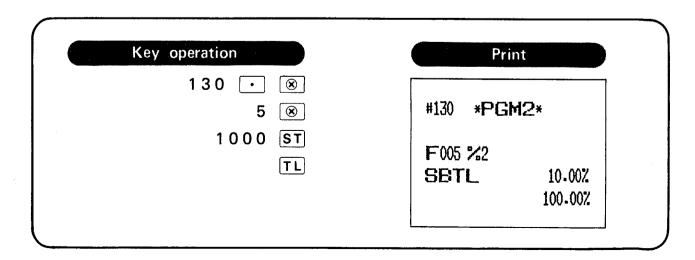
6. Function parameter programming

(1) Programming the rate (PGM1 or PGM2 mode)

You can program a % rate, foreign currency exchange rate, VAT (tax) rate, commission rate, or service charge for the functions shown in the table below.

$\begin{array}{c} \hline \textbf{Procedure} \\ \hline \hline 130 \ \rightarrow \ \textcircled{\$} \ \rightarrow \ \hline \end{array} \begin{array}{c} \hline \textbf{To program zero} \\ \hline \hline \end{array}$

Function	Function no.	Percentage
% 1 % 2 % 3 % 4	4 5 6 7	a maximum of 3-digit integer + 2-digit decimal (0.00 — 100.00)
VAT/TAX 1 VAT/TAX 2 VAT/TAX 3 VAT/TAX 4 VAT/TAX 5 VAT/TAX 6	17 18 19 20 21 22	a maximum of 2-digit integer + 4-digit decimal (0.0000 — 99.9999)
FOREIGN CURRENCY 1 FOREIGN CURRENCY 2 FOREIGN CURRENCY 3	56 57 58	a maximum of 4-digit integer + 4-digit decimal (0.0000 — 9999.9999)
COMMISSION 1 COMMISSION 2 COMMISSION 3	66 67 68	a maximum of 3-digit integer + 2-digit decimal (0.00 — 999.00)
SERVICE CHARGE	73	a maximum of 2-digit integer + 2-digit decimal (0.00 — 99.99)



(2) Function programming 1 (for CA, CH, CR) (PGM2 mode)

Procedure

When A thru C are all zeroes



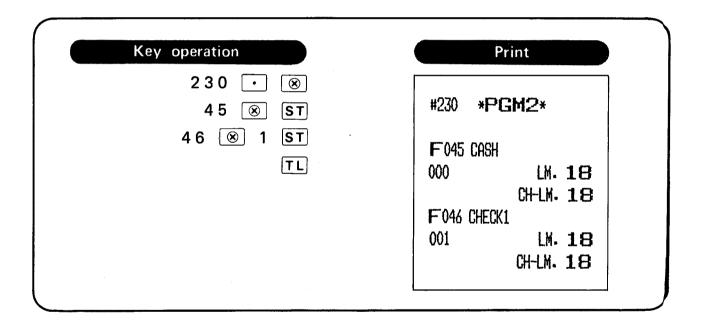
*Function no.;

A: Drawer open allowed/disallowed = 1/0

B: Simply depression of a corresponding medium key compulsory/non-compulsory = 1/0

C: Amount tendering

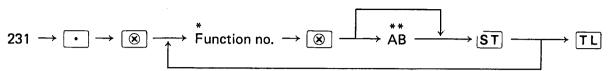
(for cash and check) compulsory/non-compulsory = 1/0 (for credit) compulsory/inhibited = 1/0



(3) Function programming 2 (for %, —) (PGM2 mode)

Procedure

When A and B are all zeroes



Function	Function no.	Α	В
% 1 % 2 % 3 % 4	4 5 6 7	0 0 0	0000
⊝ 1 ⊝ 2	8 9		0 0

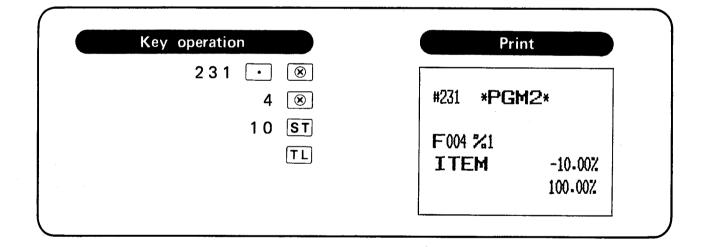
A: Sign (only for %1 thru %4) -/+ = 1/0

B: Subtotal or item selection

(for %1 thru %4)

subtotal %/item % = 1/0

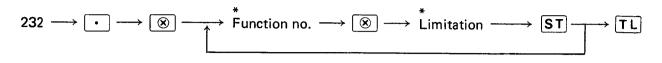
(for \bigcirc 1 and \bigcirc 2) subtotal \bigcirc /item \bigcirc = 1/0



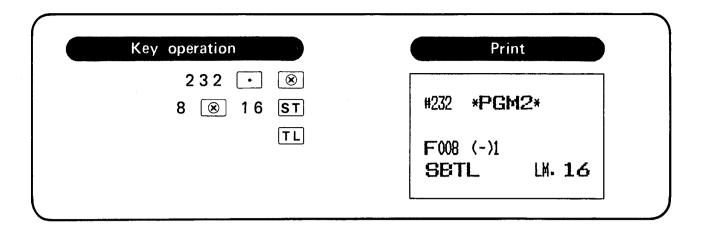
(4) Function programming 3 (HALO) (PGM2 mode)

Your machine allows you to program the upper limit for the following functions.

Procedure

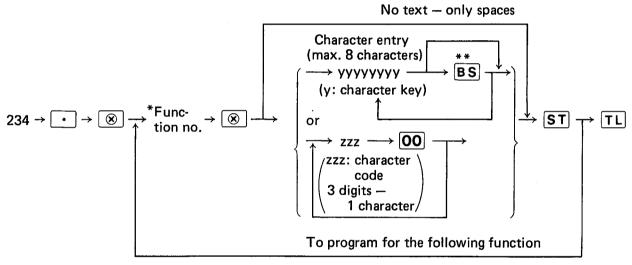


Function	Function no.	Limitation
% 1 % 2 % 3 % 4	4 5 6 7	Percentage limitation a maximum of 3-digit integer + 2-digit decimal (0.01 ~ 100.00)
○ 1○ 2	8 9	Entry limitation 2 digits (AB)
RA1 RA2	40 41	AB is the same as A x 10 ^B A: Significant digit (1 thru 9) B: 0 thru 8
PO	42]
DEPOSIT (+) DEPOSIT ()	43 44	(e.g. 14 = ≭ 100.00)
CASH	45	
CHECK 1 CHECK 2	46 47	
CREDIT 1 CREDIT 2 CREDIT 3 CREDIT 4 CREDIT 5 CREDIT 6 CREDIT 7 CREDIT 8	48 49 50 51 52 53 54 55	
CID (sentinel amount)	59	Amount limitation max. 9 digits (*0.01 ~ *9999999.99)



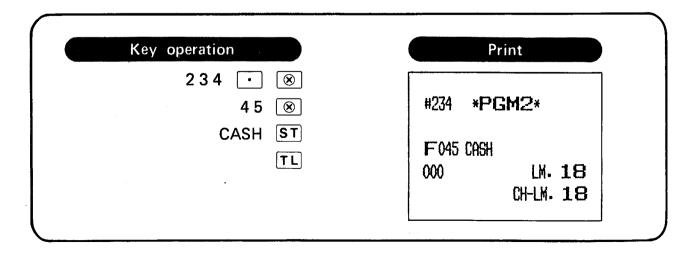
(5) Programming of function text (PGM2 mode)

Procedure



** Backspace key

^{*} Function no.: See "LIST OF FUNCTION TEXTS" described later.



LIST OF FUNCTION TEXTS

Func. no.	Function	Default text
1	Dept. (+) total	* DEPT TL
2	Dept. (–) total	* DEPT (_)
3	Hash dept. total	* HASH TL
4	% 1	%1
5	% 2	%2
6	% 3	%3
7	% 4	%4
8	(-)1	(-) 1
9	(-)2	(-) 2
10	DIFFER	DIFFER
11	Taxable 1 subtotal	TAXABLE1
12	Taxable 2 subtotal	TAXABLE2
13	Taxable 3 subtotal	TAXABLE3
14	Taxable 4 subtotal	TAXABLE4
15	Taxable 5 subtotal	TAXABLE5
16	Taxable 6 subtotal	TAXABLE6
17	VAT/Tax 1	VAT 1
18	VAT/Tax 2	VAT 2
19	VAT/Tax 3	VAT 3
20	VAT/Tax 4	VAT 4
21	VAT/Tax 5	VAT 5
22	VAT/Tax 6	VAT 6
23	Non taxable subtotal	NON TAX
24	Net 1 total	NET1
25	Net 2 total	NET2
26	Refund	REFUND
27	∽ .	∞ .
28	∽ mode total	<u>∽</u> MODE
29	MGR ∽	MGR ∽
30	Hash refund	HASH RF
31	Hash ∽	HASH ∽
32	VAT shift	VAT SFT

33 VAT delete TAX DELE 34 Validation print count VP CNT 35 Slip count SLIP CNT 36 No sale NO SALE 37 Previous balance ***PBAL 38 New balance ***NBAL 39 Guest check count G. C. CNT 40 RA 1 ***RA1 41 RA 2 ***RA2 42 PO ***PO 43 Deposit (+) DEPOSIT 44 Deposit (-) DEPOS (-) 45 Cash CASH 46 Check 1 CHECK1 47 Check 2 CHECK2 48 Credit 1 CREDIT1 49 Credit 2 CREDIT2 50 Credit 3 CREDIT3 51 Credit 4 CREDIT6 52 Credit 5 CREDIT6 53 Credit 6 CREDIT6 54 Credit 7 CREDIT8 56 Curr	Func. no.	Function	Default text
SLIP CNT 36	33	VAT delete	TAX DELE
36 No sale NO SALE 37 Previous balance * * * PBAL 38 New balance * * * NBAL 39 Guest check count G. C. CNT 40 RA 1 * * * RA1 41 RA 2 * * * * RA2 42 PO * * * * PO 43 Deposit (+) DEPOSIT 44 Deposit (-) DEPOS (-) 45 Cash CASH 46 Check 1 CHECK1 47 Check 2 CHECK2 48 Credit 1 CREDIT1 49 Credit 2 CREDIT2 50 Credit 3 CREDIT3 51 Credit 4 CREDIT3 51 Credit 5 CREDIT5 53 Credit 6 CREDIT5 54 Credit 7 CREDIT7 55 Credit 8 CREDIT8 56 Currency exchange 1 EXCHNG1 57 Currency exchange 2 EXCHNG3 59	34	Validation print count	VP CNT
37	35	Slip count	SLIP CNT
38 New balance * * * NBAL 39 Guest check count G. C. CNT 40 RA 1 * * * RA1 41 RA 2 * * * * RA2 42 PO * * * * PO 43 Deposit (+) DEPOSIT 44 Deposit (-) DEPOS (-) 45 Cash CASH 46 Check 1 CHECK1 47 Check 2 CHECK2 48 Credit 1 CREDIT1 49 Credit 2 CREDIT2 50 Credit 3 CREDIT3 51 Credit 4 CREDIT3 51 Credit 5 CREDIT5 53 Credit 6 CREDIT5 54 Credit 7 CREDIT6 54 Credit 8 CREDIT8 56 Currency exchange 1 EXCHNG1 57 Currency exchange 2 EXCHNG3 59 CID * * * CID 60 CASH IS CASH IS 61	36	No sale	NO SALE
39 Guest check count G. C. CNT 40 RA 1 * * * * RA1 41 RA 2 * * * * RA2 42 PO * * * * PO 43 Deposit (+) DEPOSIT 44 Deposit (-) DEPOS (-) 45 Cash CASH 46 Check 1 CHECK1 47 Check 2 CHECK2 48 Credit 1 CREDIT1 49 Credit 2 CREDIT2 50 Credit 3 CREDIT3 51 Credit 4 CREDIT4 52 Credit 5 CREDIT5 53 Credit 6 CREDIT6 54 Credit 7 CREDIT7 55 Credit 8 CREDIT8 56 Currency exchange 1 EXCHNG1 57 Currency exchange 2 EXCHNG2 58 Currency exchange 3 EXCHNG3 59 CID * * * * CID 60 CASH IS 61 Cash/check in dra	37	Previous balance	* * * PBAL
40 RA 1 RA 2 ***RA2 42 PO ****PO 43 Deposit (+) DEPOSIT 44 Deposit (-) 45 Cash CASH 46 Check 1 CHECK1 47 Check 2 CHECK2 48 Credit 1 CREDIT1 49 Credit 2 CREDIT3 51 Credit 4 CREDIT4 52 Credit 5 Credit 6 CREDIT5 53 Credit 6 CREDIT6 54 Credit 7 CREDIT7 55 Credit 8 CREDIT8 56 Currency exchange 1 EXCHNG1 57 Currency exchange 2 EXCHNG2 58 CURST 60 CASH IS 61 Cash/check in drawer 62 CHEK/CG 63 Guest ****RA2 ****RA2 *****RA2 ******RA2 **********	38	New balance	* * * NBAL
41 RA 2 ****RA2 42 PO ****PO 43 Deposit (+) DEPOSIT 44 Deposit (-) DEPOS (-) 45 Cash CASH 46 Check 1 CHECK1 47 Check 2 CHECK2 48 Credit 1 CREDIT1 49 Credit 2 CREDIT2 50 Credit 3 CREDIT3 51 Credit 4 CREDIT4 52 Credit 5 CREDIT5 53 Credit 6 CREDIT6 54 Credit 7 CREDIT7 55 Credit 8 CREDIT8 56 Currency exchange 1 EXCHNG1 57 Currency exchange 2 EXCHNG2 58 Currency exchange 3 EXCHNG3 59 CID ***CID 60 CASH IS CASH IS 61 Cash/check in drawer CA/CH ID 62 Check change CHK/CG	39	Guest check count	G. C. CNT
42 PO * * * * PO 43 Deposit (+) DEPOSIT 44 Deposit (-) DEPOS (-) 45 Cash CASH 46 Check 1 CHECK1 47 Check 2 CHECK2 48 Credit 1 CREDIT1 49 Credit 2 CREDIT2 50 Credit 3 CREDIT3 51 Credit 4 CREDIT4 52 Credit 5 CREDIT5 53 Credit 6 CREDIT6 54 Credit 7 CREDIT7 55 Credit 8 CREDIT8 56 Currency exchange 1 EXCHNG1 57 Currency exchange 2 EXCHNG2 58 Currency exchange 3 EXCHNG3 59 CID * * * CID 60 CASH IS CASH IS 61 Cash/check in drawer CA/CH ID 62 Check change CHK/CG 63 Guest GUEST	40	RA 1	* * * RA1
43 Deposit (+) DEPOSIT 44 Deposit (-) DEPOS (-) 45 Cash CASH 46 Check 1 CHECK1 47 Check 2 CHECK2 48 Credit 1 CREDIT1 49 Credit 2 CREDIT2 50 Credit 3 CREDIT3 51 Credit 4 CREDIT4 52 Credit 5 CREDIT5 53 Credit 6 CREDIT6 54 Credit 7 CREDIT7 55 Credit 8 CREDIT8 56 Currency exchange 1 EXCHNG1 57 Currency exchange 2 EXCHNG2 58 Currency exchange 3 EXCHNG3 59 CID * * * CID 60 CASH IS CASH IS 61 Cash/check in drawer CA/CH ID 62 Check change CHK/CG 63 Guest GUEST	41	RA 2	* * * RA2
44 Deposit () DEPOS () 45 Cash CASH 46 Check 1 CHECK1 47 Check 2 CHECK2 48 Credit 1 CREDIT1 49 Credit 2 CREDIT2 50 Credit 3 CREDIT3 51 Credit 4 CREDIT4 52 Credit 5 CREDIT5 53 Credit 6 CREDIT6 54 Credit 7 CREDIT7 55 Credit 8 CREDIT8 56 Currency exchange 1 EXCHNG1 57 Currency exchange 2 EXCHNG2 58 Currency exchange 3 EXCHNG3 59 CID * * * CID 60 CASH IS CASH IS 61 Cash/check in drawer CA/CH ID 62 Check change CHK/CG 63 Guest GUEST	42	PO	* * * PO
45 Cash CASH 46 Check 1 CHECK1 47 Check 2 CHECK2 48 Credit 1 CREDIT1 49 Credit 2 CREDIT2 50 Credit 3 CREDIT3 51 Credit 4 CREDIT4 52 Credit 5 CREDIT5 53 Credit 6 CREDIT6 54 Credit 7 CREDIT7 55 Credit 8 CREDIT8 56 Currency exchange 1 EXCHNG1 57 Currency exchange 2 EXCHNG2 58 Currency exchange 3 EXCHNG3 59 CID * * * CID 60 CASH IS CASH IS 61 Cash/check in drawer CA/CH ID 62 Check change CHK/CG 63 Guest GUEST	43	Deposit (+)	DEPOSIT
46 Check 1 CHECK1 47 Check 2 CHECK2 48 Credit 1 CREDIT1 49 Credit 2 CREDIT2 50 Credit 3 CREDIT3 51 Credit 4 CREDIT4 52 Credit 5 CREDIT5 53 Credit 6 CREDIT6 54 Credit 7 CREDIT7 55 Credit 8 CREDIT8 56 Currency exchange 1 EXCHNG1 57 Currency exchange 2 EXCHNG2 58 Currency exchange 3 EXCHNG3 59 CID * * * CID 60 CASH IS CASH IS 61 Cash/check in drawer CA/CH ID 62 Check change CHK/CG 63 Guest GUEST	44	Deposit (–)	DEPOS (-)
47 Check 2 CHECK2 48 Credit 1 CREDIT1 49 Credit 2 CREDIT2 50 Credit 3 CREDIT3 51 Credit 4 CREDIT4 52 Credit 5 CREDIT5 53 Credit 6 CREDIT6 54 Credit 7 CREDIT7 55 Credit 8 CREDIT8 56 Currency exchange 1 EXCHNG1 57 Currency exchange 2 EXCHNG2 58 Currency exchange 3 EXCHNG3 59 CID * * * * CID 60 CASH IS CASH IS 61 Cash/check in drawer CA/CH ID 62 Check change CHK/CG 63 Guest GUEST	45	Cash	CASH
48 Credit 1 CREDIT1 49 Credit 2 CREDIT2 50 Credit 3 CREDIT3 51 Credit 4 CREDIT4 52 Credit 5 CREDIT5 53 Credit 6 CREDIT6 54 Credit 7 CREDIT7 55 Credit 8 CREDIT8 56 Currency exchange 1 EXCHNG1 57 Currency exchange 2 EXCHNG2 58 Currency exchange 3 EXCHNG3 59 CID * * * * CID 60 CASH IS CASH IS 61 Cash/check in drawer CA/CH ID 62 Check change CHK/CG 63 Guest GUEST	46	Check 1	CHECK1
49 Credit 2 CREDIT2 50 Credit 3 CREDIT3 51 Credit 4 CREDIT4 52 Credit 5 CREDIT5 53 Credit 6 CREDIT6 54 Credit 7 CREDIT7 55 Credit 8 CREDIT8 56 Currency exchange 1 EXCHNG1 57 Currency exchange 2 EXCHNG2 58 Currency exchange 3 EXCHNG3 59 CID * * * CID 60 CASH IS CASH IS 61 Cash/check in drawer CA/CH ID 62 Check change CHK/CG 63 Guest GUEST	47	Check 2	CHECK2
50 Credit 3 CREDIT3 51 Credit 4 CREDIT4 52 Credit 5 CREDIT5 53 Credit 6 CREDIT6 54 Credit 7 CREDIT7 55 Credit 8 CREDIT8 56 Currency exchange 1 EXCHNG1 57 Currency exchange 2 EXCHNG2 58 Currency exchange 3 EXCHNG3 59 CID * * * * CID 60 CASH IS CASH IS 61 Cash/check in drawer CA/CH ID 62 Check change CHK/CG 63 Guest GUEST	48	Credit 1	CREDIT1
50 Credit 3 CREDIT3 51 Credit 4 CREDIT4 52 Credit 5 CREDIT5 53 Credit 6 CREDIT6 54 Credit 7 CREDIT7 55 Credit 8 CREDIT8 56 Currency exchange 1 EXCHNG1 57 Currency exchange 2 EXCHNG2 58 Currency exchange 3 EXCHNG3 59 CID * * * CID 60 CASH IS CASH IS 61 Cash/check in drawer CA/CH ID 62 Check change CHK/CG 63 Guest GUEST	49	Credit 2	CREDIT2
52 Credit 5 CREDIT5 53 Credit 6 CREDIT6 54 Credit 7 CREDIT7 55 Credit 8 CREDIT8 56 Currency exchange 1 EXCHNG1 57 Currency exchange 2 EXCHNG2 58 Currency exchange 3 EXCHNG3 59 CID * * * * CID 60 CASH IS CASH IS 61 Cash/check in drawer CA/CH ID 62 Check change CHK/CG 63 Guest GUEST	50	Credit 3	CREDIT3
53 Credit 6 CREDIT6 54 Credit 7 CREDIT7 55 Credit 8 CREDIT8 56 Currency exchange 1 EXCHNG1 57 Currency exchange 2 EXCHNG2 58 Currency exchange 3 EXCHNG3 59 CID * * * CID 60 CASH IS CASH IS 61 Cash/check in drawer CA/CH ID 62 Check change CHK/CG 63 Guest GUEST	51	Credit 4	CREDIT4
54 Credit 7 CREDIT7 55 Credit 8 CREDIT8 56 Currency exchange 1 EXCHNG1 57 Currency exchange 2 EXCHNG2 58 Currency exchange 3 EXCHNG3 59 CID * * * CID 60 CASH IS CASH IS 61 Cash/check in drawer CA/CH ID 62 Check change CHK/CG 63 Guest GUEST	52	Credit 5	CREDIT5
55 Credit 8 CREDIT8 56 Currency exchange 1 EXCHNG1 57 Currency exchange 2 EXCHNG2 58 Currency exchange 3 EXCHNG3 59 CID * * * * CID 60 CASH IS CASH IS 61 Cash/check in drawer CA/CH ID 62 Check change CHK/CG 63 Guest GUEST	53	Credit 6	CREDIT6
56 Currency exchange 1 EXCHNG1 57 Currency exchange 2 EXCHNG2 58 Currency exchange 3 EXCHNG3 59 CID * * * * CID 60 CASH IS CASH IS 61 Cash/check in drawer CA/CH ID 62 Check change CHK/CG 63 Guest GUEST	54	Credit 7	CREDIT7
57 Currency exchange 2 EXCHNG2 58 Currency exchange 3 EXCHNG3 59 CID * * * * CID 60 CASH IS CASH IS 61 Cash/check in drawer CA/CH ID 62 Check change CHK/CG 63 Guest GUEST	55	Credit 8	CREDIT8
58 Currency exchange 3 EXCHNG3 59 CID * * * * CID 60 CASH IS CASH IS 61 Cash/check in drawer CA/CH ID 62 Check change CHK/CG 63 Guest GUEST	56	Currency exchange 1	EXCHNG1
59 CID * * * CID 60 CASH IS CASH IS 61 Cash/check in drawer CA/CH ID 62 Check change CHK/CG 63 Guest GUEST	57	Currency exchange 2	EXCHNG2
60 CASH IS CASH IS 61 Cash/check in drawer CA/CH ID 62 Check change CHK/CG 63 Guest GUEST	58	Currency exchange 3	EXCHNG3
61 Cash/check in drawer CA/CH ID 62 Check change CHK/CG 63 Guest GUEST	59	CID	* * * CID
62 Check change CHK/CG 63 Guest GUEST	60	CASH IS	CASH IS
63 Guest GUEST	61	Cash/check in drawer	CA/CH ID
	62	Check change	CHK/CG
64 Transfer out TRAN. OUT	63	Guest	GUEST
	64	Transfer out	TRAN. OUT

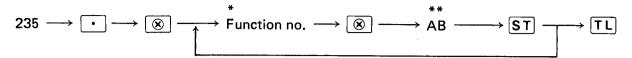
Func. no.	Function	Default text
65	Transfer in	TRAN. IN
66	Commission sale 1	COM. SAL1
67	Commission sale 2	COM. SAL2
68	Commission sale 3	COM. SAL3
69	Non commission	NON COM
70	Order total	ORDER TL
71	Paid total	PAID TL
72	Working time	WK TIME
73	Service charge	SER. CHRG
74	Time sales total	TIME TTL
75	NET 1	NET 1
76	NET 2	NET 2
77	NET 3	NET 3
78	NET 4	NET 4
79	NET 5	NET 5
80	NET 6	NET 6
81	Subtotal	SUBTOTAL
82	Merchandise subtotal	MDS SBTL
83	Difference subtotal	DIFF ST
84	Total	* * * TOTAL
85	Change	CHANGE
86	Due	DUE
87	Sales q'ty	ITEMS
88	Start time	START
89	Transfer cash	TRANSFER
90	Void mode title	VOID
91	Copy receipt title	COPY
92	Bill total title	В. Т.
93	Guest check receipt title	G. C. RCPT
94	Guest check copy title	G. C. COPY
95	Slip print journal message	SLIP PR.
96	Slip next page	NEXT P.

Func. no.	Function	Default text
97	Average	AVE.
98	Group	GROUP
99	Group total	GROUP TL
100	CCD	CCD
101	CCD difference	DIFFER
102	Order total — Paid total	O-P
103	Commission amount 1	COM. AMT1
104	Commission amount 2	COM. AMT2
105	Commission amount 3	COM. AMT3
106	Bill balance	BILL BAL
107	Free guest look up	FREE GLU
108	Turnover per table	T. TABLE
109	Turnover per guest	T. GUEST
110	Turnover per bill	T. BILL
111	Item per guest	I. GUEST
112	Item per bill	I. BILL
113	Ave. price per item	AVE. ITEM
114	GT report title	* G T *
115	Dept. report title	* D P T *
116	Group report title	* GROUP *
117	PLU report title	* P L U *
118	Stock report title	* STOCK. *
119	Transaction report title	* TRANS. *
120	CID report title	* C I D *
121	Clerk report title	* CLERK *
122	Cashier report title	* CASH. *
123	Hourly report title	* HOURLY *
124	Daily report title	* DAILY *
125	GLU/PBLU report title	* G L U *
126	Chief report title	* CHIEF *
127	Sales report title	* SALES *
128		

(6) Programming of the change limit (PGM2 mode)

You can program a cash change limit for each medium tendering.

Procedure

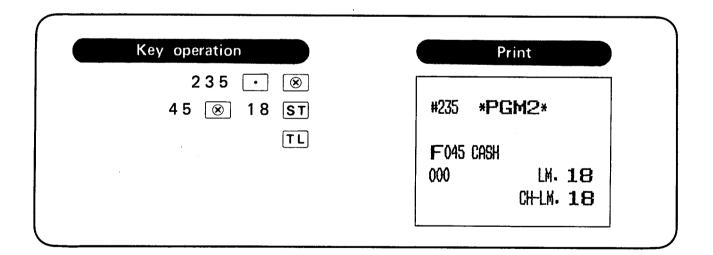


*

Function No.	Function
45	CASH
46	CHECK1
47	CHECK2
48	CREDIT1
49	CREDIT2
50	CREDIT3
51	CREDIT4
52	CREDIT5
53	CREDIT6
54	CREDIT7
55	CREDIT8

**AB: AB is the same as A x 10^B
A: Significant digit (1 thru 9)

B: 0 thru 8

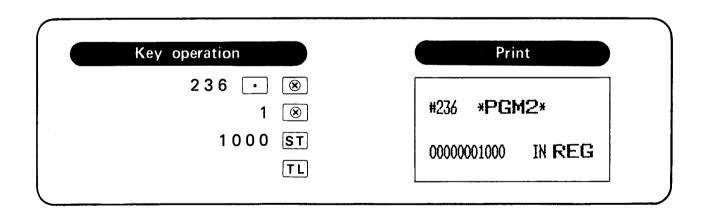


(7) Programming of the operating mode (PGM2 mode)

Your machine allows you to program the operating mode for the following functions.

Procedure When A thru K are all zeroes *** *** *** **Mode selection: (1 or 2) 1 = in REG mode 2 = in MGR mode

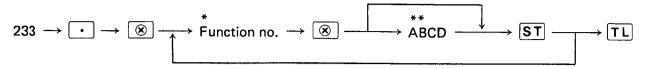
r r		
A:	RA1	disallowed/allowed = $1/0$
B:	RA2	disallowed/allowed = $1/0$
C:	PO	disallowed/allowed = $1/0$
D:	Past void	disallowed/allowed = $1/0$
E:	Last void	disallowed/allowed = $1/0$
F:	Refund	disallowed/allowed = $1/0$
G:	Guest check receipt	disallowed/allowed = $1/0$
Н:	Transfer cash	disallowed/allowed = $1/0$
1:	Level shift	disallowed/allowed = $1/0$
J:	Price shift	disallowed/allowed = 1/0
K:	Void mode	disallowed/allowed = $1/0$



(8) Programming of the tax exemption limit (PGM2 mode)

Procedure





*Function no.:

17 = VAT/Tax 1

18 = VAT/Tax 2

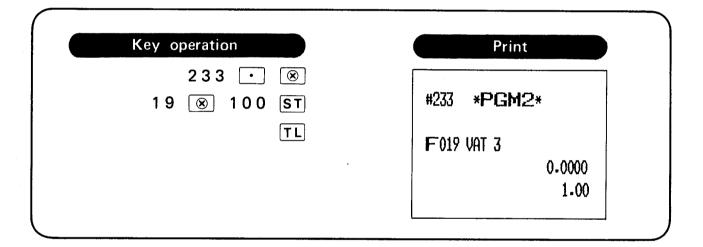
19 = VAT/Tax 3

20 = VAT/Tax 4

21 = VAT/Tax 5

22 = VAT/Tax 6

ABCD: Tax exemption limit (0 thru *99.99)

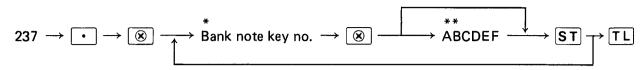


(9) Programming a denomination of bank note (PGM2 mode)

You can program a denomination for each bank note key (1 \sim 3).

Procedure

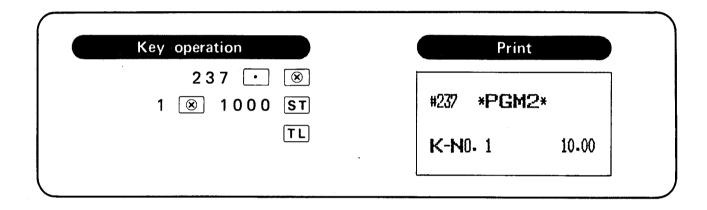
When A thru F are all zeroes



*Bank note key no.: 1 thru 3

ABCDEF: Denomination of bank note (0 thru *9999.99)

(0 = prohibits a corresponding bank note key)



7. Clerk programming

(1) Clerk code definition (PGM1 or PGM2 mode)

Procedure 0 = clear out $141 \rightarrow \bullet \rightarrow \otimes \rightarrow \text{Clerk no.} \rightarrow \otimes \rightarrow \text{Clerk code} \rightarrow \text{ST} \rightarrow \text{TL}$

- *Clerk no.: 1 thru 6 (Standard) /max. 99
- **Clerk code
- OWhen the real clerk key system has been selected.

system has been selected: 1 thru 6 (standard)/max, 99

When the push-button clerk key system has

been selected

: 1 thru 15

When either the real clerk key system or the push button clerk key system has been selected, you can specify the following keys by entering the corresponding numbers.

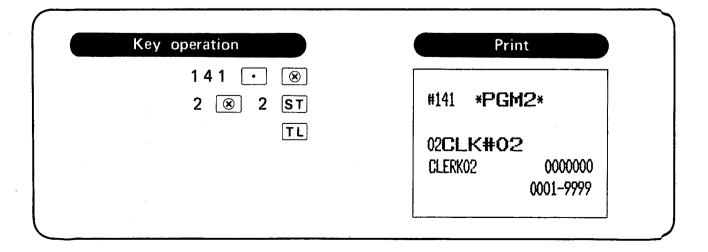
$$A = 1$$
 $L = 7$ $S = 13$ $B = 2$ $M = 8$ $T = 14$ $D = 3$ $N = 9$ $U = 15$ $E = 4$ $P = 10$ "01" = 16 $H = 5$ $Q = 11$ $?$ $?$ $R = 12$ "84" = 99

OWhen the clerk code entry

system has been selected: 1 thru 99

Note: The standard machine allows the use of clerk keys A thru K (or 1 to 6) alone when the real ckerk key system has been selected. So only those keys are supplied with the machine.

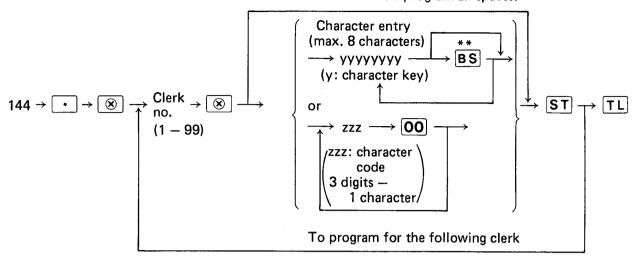
Other clerk keys are optionally available.



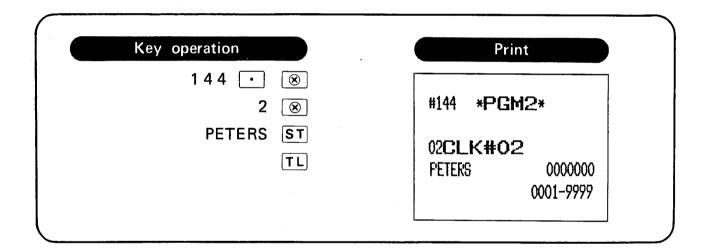
(2) Assigning of the names of clerks (PGM1 or PGM2 mode)

Procedure

To program all spaces.



** Backspace key

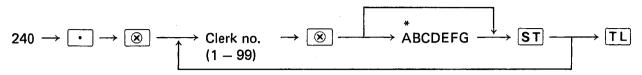


(3) Functional programming (PGM2 mode)

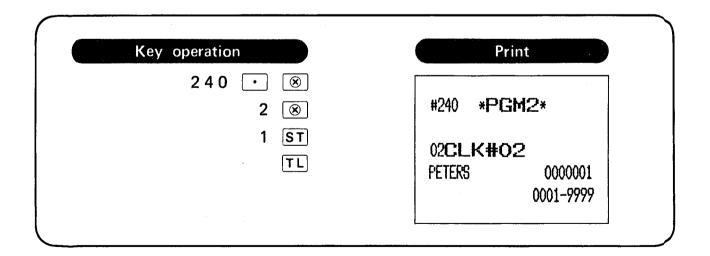
You can program functions A thru G shown in the table below for clerks.

Procedure

When A thru G are all zeroes.

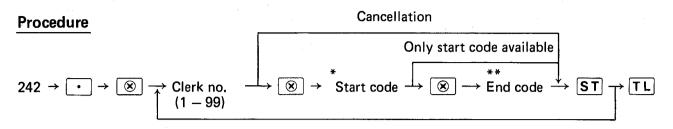


İtem	Function	Selection	Enter
	Guest look up/previous balance look up	Compulsory	1
A		Non-compulsory	0
В	Cuest shook some	Disable	1
B	Guest check copy	Enable	0
С	Slip printing	Compulsory	1
'		Non-compulsory	0
	VAT	State	1
D	VAT status shift	Not	0
E	Deice level	Price 2 active	1
E	Price level	Price 1 active	0
	Working time control	Yes	1
F		No	0
G	Drawer no.	Drawer 1 – 4/no use	1-4/0

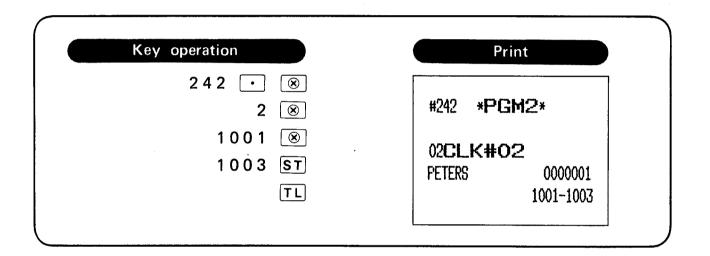


(4) Programming of guest check (GLU/PBLU) codes (PGM2 mode)

You can program the range of guest check codes available to each individual clerk.



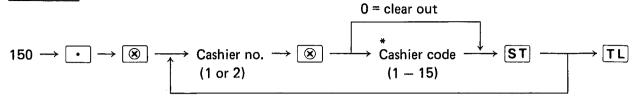
*Start code: 1 thru 9999
**End code: 1 thru 9999



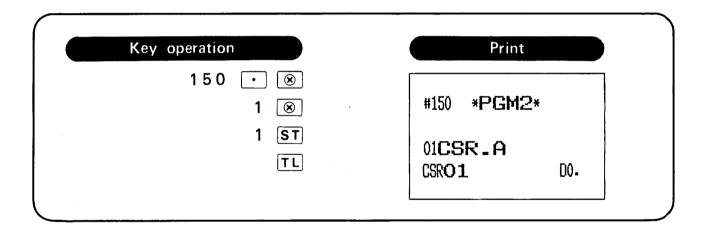
8. Cashier programming

(1) Cashier code definition (PGM1 or PGM2 mode)

Procedure



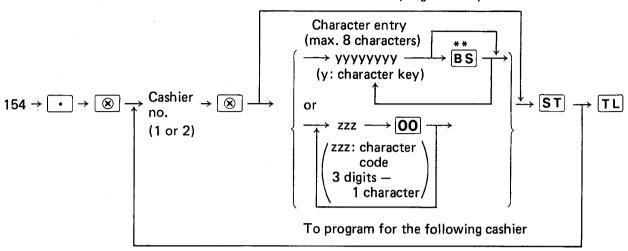
Cashier code: A = 1N = 9B = 2P = 10D = 3Q = 11E = 4R = 12 $H \approx 5$ S = 13K = 6T = 14U = 15L = 7M = 8



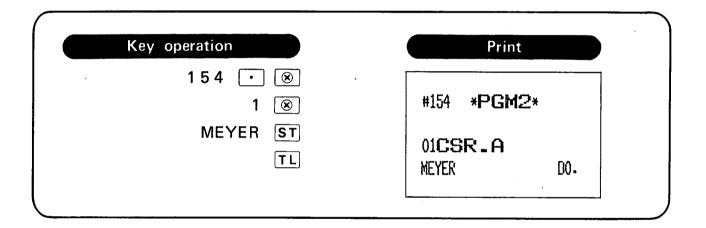
(2) Programming of the cashier name (PGM1 or PGM2 mode)

Procedure

To program all spaces.



** Backspace key

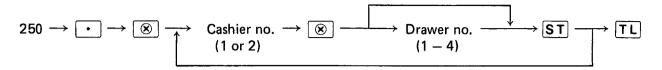


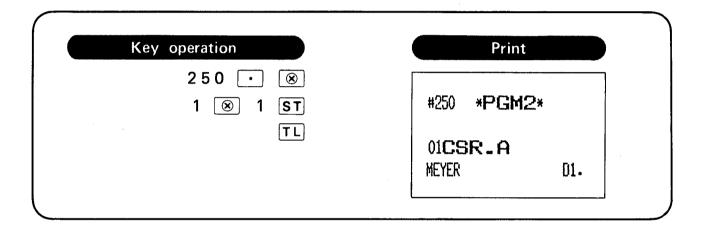
(3) Assigning cashiers to drawers (PGM2 mode)

You can assign drawers available to individual cashiers.

Procedure

To program 0 (= drawer remains closed)





9. Programming of validation printing and slip printing (PGM2 mode)

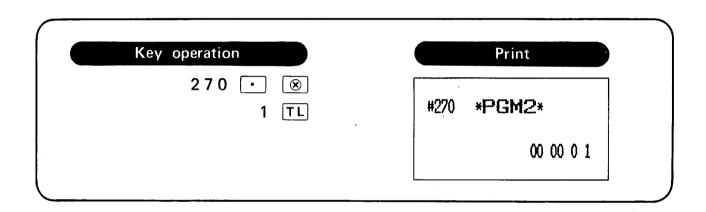
Procedure

AB: Slip initial feed lines (0 \sim 64 lines)

CD: Maximum number of slip print lines (0 \sim 99 lines)

E: Slip printing counter (0 or 1 time)
To inhibit slip printing, enter 0.

F: Validation printing counter (0 or 1 time)
To inhibit validation printing, enter 0.



10. Programming for optional feature selection (PGM2 mode)

Procedure

When A thru D are all zeroes.

71 \longrightarrow *ABCD \longrightarrow TL

*A: Item printing on slip

Skip/print = 1/0

B: Journal select printing (plus dept./plus PLU) Yes/No = 1/0

C: PLU price shift mode

Lock shift mode/automatic return mode = 1/0

D: PLU level shift mode

Lock shift mode/automatic return mode = 1/0

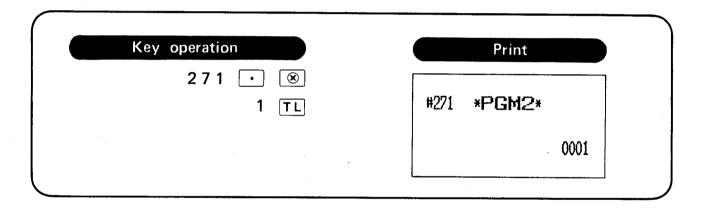
Note) Automatic return mode: The price/level status are changed each other only

when the shift key has been pressed.

Lock shift mode:

The price/level status stays unchanged until the shift

key is pressed again.

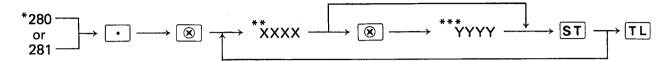


11. Guest check code (GLU/PBLU code) programming (PGM2 mode)

Consecutive guest checks can be added to or deleted from the list of usable check codes with two program job codes (#280, #281)

<u>Procedure</u>

To program/delete one record.

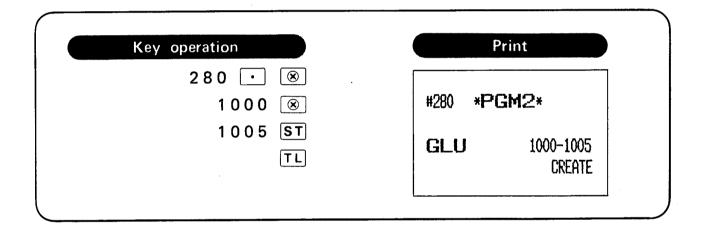


*280: Designate usable guest check(s)

281: Delete guest check(s)

**XXXX: Start GLU/PBLU code 1 thru 9999 (free code)

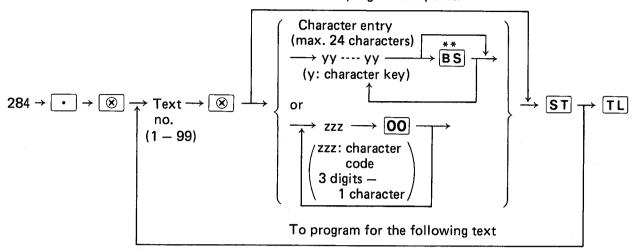
YYYY: End GLU/PBLU code 1 thru 9999 (free code)



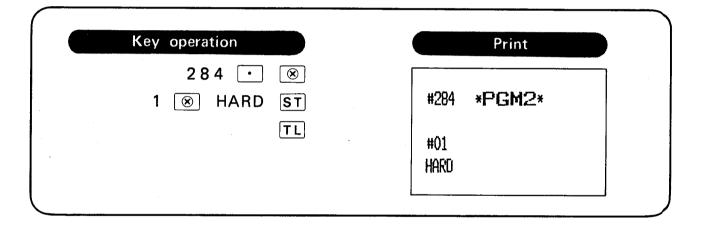
12. Free text programming (PGM2 mode)

Procedure

To program all spaces.



** Backspace key

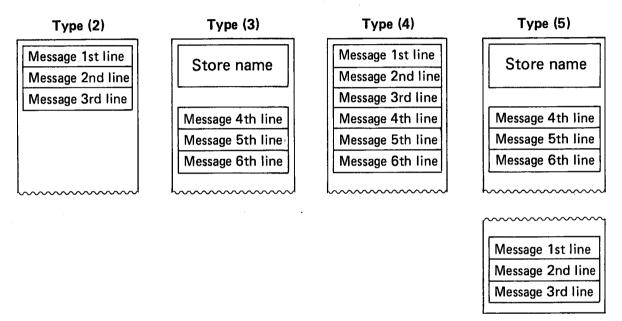


13. Logo text programming (PGM2 mode)

Your machine can print logo messages in the following five manners. The standard model provides no message line; it allows stamping only. If you need the printing of programmed messages, please consult your dealer.

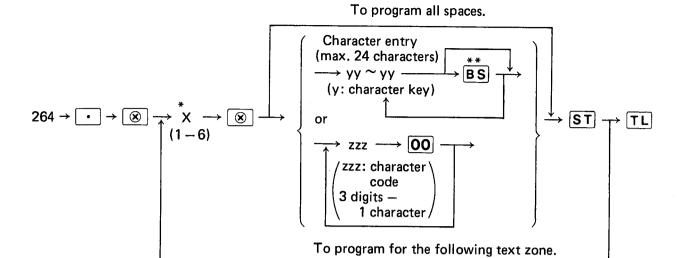
- (1) No logo message printed (store name only)
- (2) 3-line logo message instead of store name
- (3) 3-line logo message and store name
- (4) 6-line logo message instead of store name
- (5) 3-line header, 3-line footer and store name

Print positions on the receipt



Note) Up to 24 characters can be programmed per line.

Procedure



** Backspace key

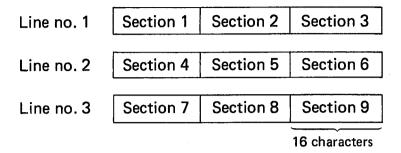
*X: Line number for logo message (1 thru 6)

Key operation	Print
264 🕟 🛞	
4 🛞	#264 *PGM2*
* * * R	MANAMADECATO IDUITA A CONTRACTOR DE CONTRACT
TAURA	******RESTAURANT***** ******SHARP*****
* * * *	O'H'HY
ST	
5 🛞	
* * * (DC)	
H (DC) A (DC) R	
* * * *	
ST	:
TL	

14. Programming of texts to be printed on slip (PGM2 mode)

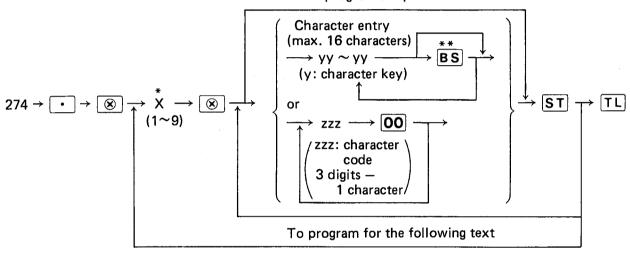
You can program the texts (3 lines) to be printed on slip. Up to 48 characters can be programmed per line.

A text line consists of three sections.



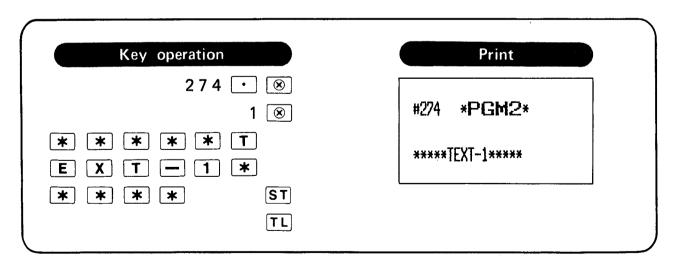
Procedure

To program all spaces.



** Backspace key

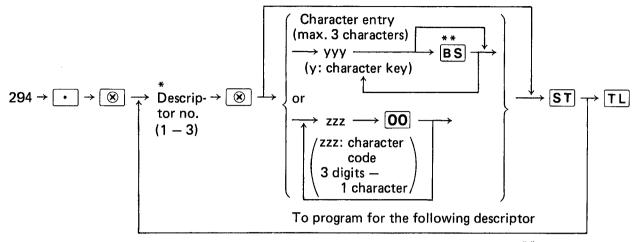
*X: Section no. (1 thru 9)



15. Programming of currency descriptor text (PGM2 mode)

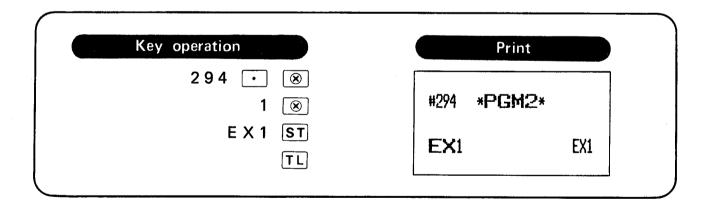
Procedure

To program all spaces.



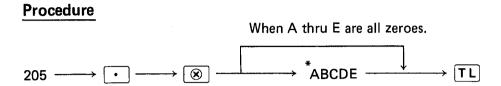
** Backspace key

Descriptor No.	
1	Foreign currency 1
2	Foreign currency 2
3	Foreign currency 3

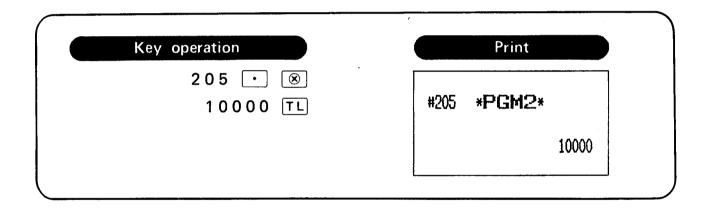


16. Programming of general report (#100 or #200) format (PGM2 mode)

You can program whether to skip or print the following items in general report printing.

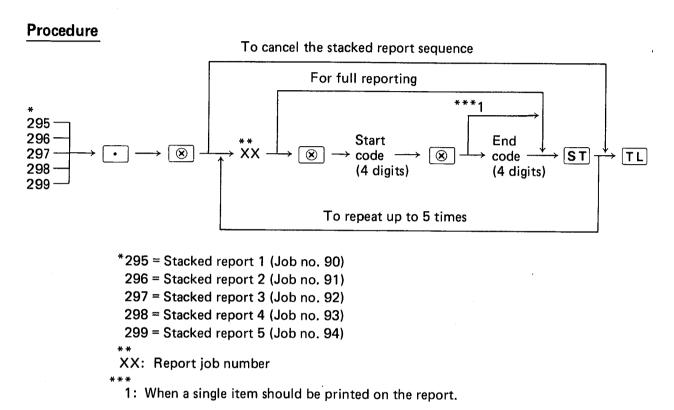


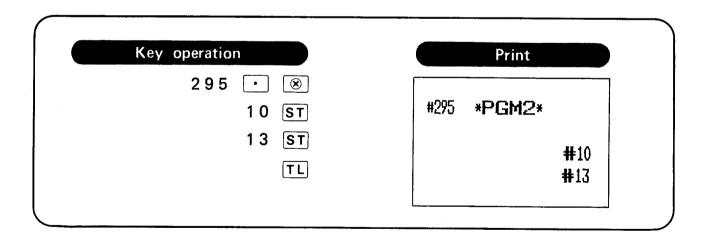
- *A: Department skip/print = 1/0
- B: Transaction skip/print = 1/0
- C: Tax sales skip/print = 1/0
- D: CID skip/print = 1/0
- E: Guest and net skip/print = 1/0



17. Selection of X1/Z1 and X2/Z2 reports to be printed in the stacked report sequence (PGM2 mode)

Your register is equipped with the stacked report printing function that enables multiple X/Z reports to be printed in sequence with only a single request, up to maximum of 5 reports. This function continuously prints a maximum of 5 kinds of reports with a single operation.

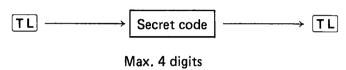




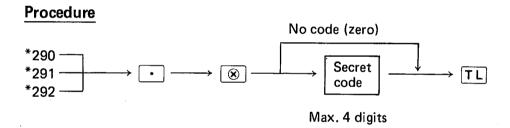
18. Secret codes to control access to PGM1 mode, and Z1 and Z2 reports (PGM2 mode)

- When changing stored programs in the PGM1 mode, those operations are inhibited if no secret code is entered.
- When printing Z1 and Z2 (resetting) reports, the printing is inhibited if no secret code is entered.
- A secret code must be entered using the procedure below before attempting to read stored programs (in the PGM1 mode) or to print Z1 and Z2 (resetting) reports.

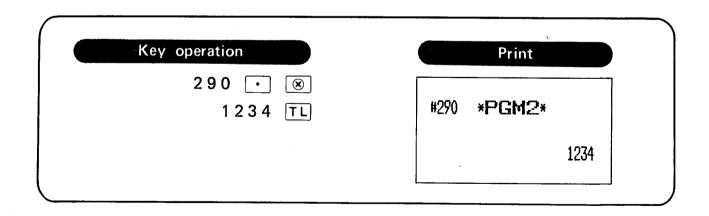
Procedure



Note: Once a secret code is entered, it does not need to be entered again unless the mode switch setting is changed and any operation, such as a sales registration, reporting, or programming, is performed.

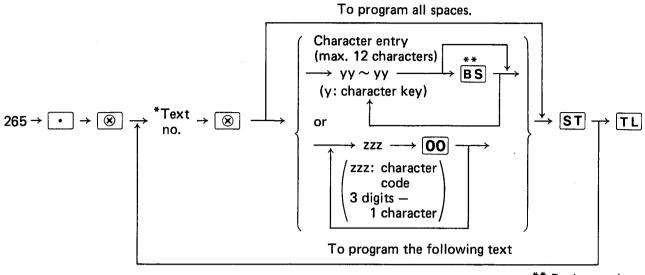


*: 290 for PGM1 mode 291 for Z1 report 292 for Z2 report



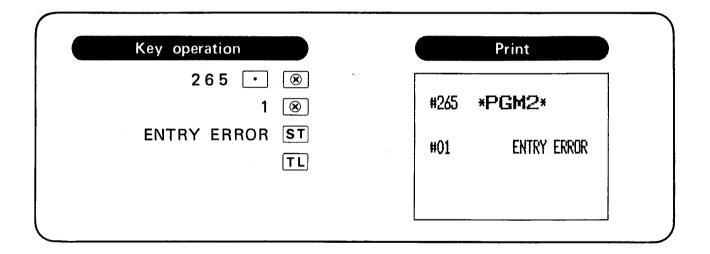
19. Programming of error messages (PGM2 mode)

Procedure



** Backspace key

*Text no.: See "LIST OF ERROR TEXT" described later.



LIST OF ERROR TEXT

1 Entry error 2 Misoperation 3 Desired code is not programmed yet 4 Paper out 5 Secret code error 6 Desired code is in use 7 Memory is filled up 8 Slip insert pressed 9 The clerk has entered a code for which he or she is not authorized 10 Desired record is locked 11 Stock empty 12 Setting slip paper again 13 After Z1 report 14 Close store state 15 During in processing the resetting report 16 The target machine was busy 17 A transmission error occurred 18 The target machine made no response 19 Power of the target machine off 20 Printer's motor locking 21 Buffer full 22 A hard error occurred 23 Off line 24 Wide printer error 25 Open store state 26 Sign on 27 Time PLU 28 GLU error save 29 Retry message 19 CHECK# message 10 NO RECORD 10 MISOPERATE 10 MISOPERAM 11 MEMORY 11 MEMORY 12 MEMORY 12 MEMORY 11 MEMORY 12 MEMORY 12 MEMORY 11 MEMORY 12 MEMORY 12 MEMORY 13 MEMORY 14 MEMORY 15 MEMORY 16 MEMORY	TEXT NO.	TEXT	DEFAULT
Desired code is not programmed yet Paper out Paper out Secret code error Desired code is in use Memory is filled up Slip insert pressed The clerk has entered a code for which he or she is not authorized Desired record is locked Stock empty Setting slip paper again After Z1 report Close store state During in processing the resetting report The target machine was busy A transmission error occurred The target machine made no response Power of the target machine off Power of the target machine off Power of the target machine off Differ full A hard error occurred Desired record Secret code error Secret code NOT FREE MEMORY FULL INSERT SLIP NO AUTHORITY RECORD LOCK STOCK EMPTY SLIP SET ENTRY ERR Z1 CLOSE STORE *LOCK(Z) * BUSY INLINE ERROR NO RESPONSE Power of the target machine off Sign on Time PLU GLU error save Retry message RETRY ?	1	Entry error	ENTRY ERROR
Paper out Secret code error Desired code is in use Not Free Memory is filled up Slip insert pressed The clerk has entered a code for which he or she is not authorized Desired record is locked Stock empty Setting slip paper again After Z1 report Close store state During in processing the resetting report The target machine was busy A transmission error occurred The target machine off Power of the target machine off Power of the target machine Buffer full A hard error occurred Diffine Wide printer error Open store state Sign on Time PLU GLU error save Retry ressage Retry ressage NOT FREE MEMORY FULL INSERT ENTRY FULL INSERT SLIP NO AUTHORITY NO AUTHORITY SECRET CODE NOT Authorized MEMORY FULL INSERT SLIP NO AUTHORITY NO AUTHO	2	Misoperation	MISOPERATE
Secret code error Desired code is in use Memory is filled up Slip insert pressed The clerk has entered a code for which he or she is not authorized Desired record is locked Stock empty Setting slip paper again After Z1 report Close store state During in processing the resetting report The target machine was busy A transmission error occurred The target machine made no response Power of the target machine off Printer's motor locking Buffer full A hard error occurred Off line Wide printer error Open store state GLU error save Retry message OURDING MEMORY FULL NNOT FREE MEMORY FULL INSERT SLIP NO AUTHORITY RECORD LOCK STOCK EMPTY SLIP SET ENTRY ERR Z1 CLOSE STORE LOCK(Z) * BUSY INLINE ERROR NO RESPONSE NO RESPONSE POWER OFF MOTOR LOCK BUFFER FULL HARD ERROR OFF LINE WP ERROR OFF LINE WP ERROR OPEN STORE SIGN ON TIME PLU ERROR SAVED RETRY?	3	Desired code is not programmed yet	NO RECORD
Desired code is in use Memory is filled up Slip insert pressed The clerk has entered a code for which he or she is not authorized Desired record is locked Stock empty Setting slip paper again After Z1 report Close store state During in processing the resetting report The target machine was busy A transmission error occurred The target machine made no response Power of the target machine off Printer's motor locking Buffer full A hard error occurred Off line Wide printer error Open store state GLUseror save Retry message OURDIVE ##	4	Paper out	PAPER EMPTY
MEMORY FULL Slip insert pressed The clerk has entered a code for which he or she is not authorized Desired record is locked Stock empty Setting slip paper again After Z1 report Close store state During in processing the resetting report The target machine was busy A transmission error occurred The target machine made no response Power of the target machine off Printer's motor locking Buffer full A hard error occurred Off line Wide printer error Open store state Sign on Time PLU CRACE The clerk has entered a code for which he or she is not authorized NO AUTHORITY NO AUTHO	5	Secret code error	SECRET CODE
Slip insert pressed The clerk has entered a code for which he or she is not authorized Desired record is locked Stock empty Setting slip paper again After Z1 report Close store state During in processing the resetting report The target machine was busy A transmission error occurred The target machine off Power of the target machine off Printer's motor locking Buffer full A hard error occurred Wide printer error Open store state Close store state Busy Wide printer error Open store state Close store Busy INLINE ERROR MOTOR LOCK Buffer Full Buffer full Buffer full Buffer Full HARD ERROR OFF LINE Wide printer error Open store state Close store state Open store state Sign on Time PLU GLU error save Retry message Retry message	6	Desired code is in use	NOT FREE
The clerk has entered a code for which he or she is not authorized Desired record is locked RECORD LOCK STOCK EMPTY Setting slip paper again After Z1 report Close store state During in processing the resetting report The target machine was busy A transmission error occurred The target machine made no response Power of the target machine off Printer's motor locking Buffer full Buffer full A hard error occurred Off line Wide printer error Open store state Sign on Time PLU RECORD LOCK STOCK EMPTY SCIENCE ENTRY ERR Z1 CLOSE STORE *LOCK(Z) * BUSY INLINE ERROR NO RESPONSE POWER OFF MOTOR LOCK BUFFER FULL HARD ERROR OFF LINE WP ERROR OPEN STORE Sign ON Time PLU RETROY OPEN STORE SIGN ON TIME PLU RETROY OPEN SAVED RETRY ?	7	Memory is filled up	MEMORY FULL
Desired record is locked Stock empty Stock empty Setting slip paper again After Z1 report Close store state During in processing the resetting report The target machine was busy A transmission error occurred The target machine made no response Power of the target machine off Printer's motor locking Buffer full A hard error occurred Define Wide printer error Open store state RECORD LOCK STOCK EMPTY SLIP SET ENTRY ERR Z1 CLOSE STORE * LOCK (Z) * BUSY INLINE ERROR NO RESPONSE POWER OFF POWER OFF MOTOR LOCK BUFFER FULL HARD ERROR OFF LINE WP ERROR OPEN STORE Sign on Sign on Time PLU GLU error save RETRY ?	8	Slip insert pressed	INSERT SLIP
Stock empty Setting slip paper again SLIP SET Setting slip paper again SLIP SET SLIP SET SIT SET SLIP SET SIT	9	The clerk has entered a code for which he or she is not authorized	NO AUTHORITY
Setting slip paper again After Z1 report Close store state During in processing the resetting report The target machine was busy A transmission error occurred Inline ERROR The target machine made no response Power of the target machine off Printer's motor locking Buffer full A hard error occurred Wide printer error Open store state SLIP SET ENTRY ERR Z1 CLOSE STORE **LOCK(Z) ** BUSY INLINE ERROR NO RESPONSE POWER OFF POWER OFF MOTOR LOCK BUFFER FULL HARD ERROR OFF LINE Wide printer error Open store state Sign on Time PLU GLU error save Retry message RETRY ?	10	Desired record is locked	RECORD LOCK
After Z1 report Close store state Close store state During in processing the resetting report The target machine was busy A transmission error occurred The target machine made no response Power of the target machine off Printer's motor locking Buffer full A hard error occurred HARD ERROR Off line Off LINE Wide printer error Open store state Sign on Time PLU RETRY Z1 CLOSE STORE * LOCK (Z) * BUSY INLINE ERROR NO RESPONSE POWER OFF POWER OFF HARD ERROR OFF LINE WP ERROR OPEN STORE SIGN ON TIME PLU ERROR SAVED RETRY ?	11	Stock empty	STOCK EMPTY
CLOSE STORE CLOSE STORE CLOSE STORE LOCK(Z) * CLOS	12	Setting slip paper again	SLIP SET
During in processing the resetting report **LOCK(Z) ** 16 The target machine was busy 17 A transmission error occurred 18 The target machine made no response 19 Power of the target machine off 20 Printer's motor locking 21 Buffer full 22 A hard error occurred 23 Off line 24 Wide printer error 25 Open store state 26 Sign on 27 Time PLU 28 GLU error save 29 Retry message 20 INLINE **LOCK(Z) ** BUSY **LOCK(Z) ** BUSY **LOCK(Z) ** BUSY **NO RESPONSE **NO RESPONSE **MOTOR LOCK BUFFER FULL **HARD ERROR OFF LINE **DOWER OFF **POWER OFF	13	After Z1 report	ENTRY ERR Z1
The target machine was busy A transmission error occurred The target machine made no response Power of the target machine off Printer's motor locking Buffer full A hard error occurred Off line Wide printer error Open store state Sign on Time PLU Retry message Cultor #	14	Close store state	CLOSE STORE
A transmission error occurred The target machine made no response Power of the target machine off Printer's motor locking Buffer full A hard error occurred Off line Wide printer error Open store state Sign on Time PLU GLU error save Retry message INLINE ERROR NO RESPONSE POWER OFF MOTOR LOCK BUFFER FULL HARD ERROR OFF LINE WP ERROR OPEN STORE SIGN ON TIME PLU ERROR SAVED RETRY ?	15	During in processing the resetting report	* LOCK (Z) *
The target machine made no response Power of the target machine off Printer's motor locking Buffer full A hard error occurred Off line Wide printer error Open store state Sign on Time PLU GLU error save Retry message NO RESPONSE POWER OFF MOTOR LOCK BUFFER FULL HARD ERROR OFF LINE WP ERROR OPEN STORE SIGN ON TIME PLU ERROR SAVED RETRY?	16	The target machine was busy	BUSY
Power of the target machine off Power of the target machine off Printer's motor locking Motor Lock Buffer full Buffer full A hard error occurred HARD ERROR Off line Wide printer error Open store state Sign on Time PLU Buffer full Buffer Full HARD ERROR OFF LINE WP ERROR OPEN STORE SIGN ON Time PLU Buffer full Fine PLU TIME PLU ERROR SAVED Retry message RETRY ?	17	A transmission error occurred	INLINE ERROR
Printer's motor locking Buffer full A hard error occurred HARD ERROR Off line Wide printer error Open store state Sign on Time PLU Retry message Printer's motor locking MOTOR LOCK BUFFER FULL HARD ERROR OFF LINE WP ERROR OPEN STORE SIGN ON TIME PLU ERROR SAVED RETRY?	18	The target machine made no response	NO RESPONSE
Buffer full A hard error occurred HARD ERROR Off line Wide printer error Open store state Sign on Time PLU BUFFER FULL HARD ERROR OFF LINE WP ERROR OPEN STORE SIGN ON TIME PLU Retry message RETRY ?	19	Power of the target machine off	POWER OFF
A hard error occurred HARD ERROR OFF LINE Wide printer error Dopen store state Sign on Time PLU Retry message CHEOK#	20	Printer's motor locking	MOTOR LOCK
Off line OFF LINE Wide printer error Open store state Open store state Sign on Time PLU GLU error save Retry message OFF LINE WP ERROR OPEN STORE SIGN ON TIME PLU ERROR SAVED RETRY?	21	Buffer full	BUFFER FULL
Wide printer error Open store state Sign on Time PLU BLU error save Retry message WP ERROR OPEN STORE SIGN ON TIME PLU ERROR SAVED RETRY ?	22	A hard error occurred	HARD ERROR
Open store state Sign on Time PLU BRITTING OPEN STORE SIGN ON TIME PLU ERROR SAVED Retry message RETRY ?	23	Off line	OFF LINE
26 Sign on SIGN ON 27 Time PLU 28 GLU error save ERROR SAVED 29 Retry message RETRY?	24	Wide printer error	WP ERROR
Time PLU SIGN ON TIME PLU ERROR SAVED Retry message RETRY ?	25	Open store state	OPEN STORE
28 GLU error save ERROR SAVED 29 Retry message RETRY?	26	Sign on	SIGN ON
29 Retry message RETRY?	27	Time PLU	TIME PLU
29 Retry message RETRY?	28	GLU error save	ERROR SAVED
20 011507.#	29	Retry message	
	30	CHECK# message	CHECK#

20. Reading stored programs

Your machine allows you to read every program stored in the PGM1 and PGM2 modes.

(1) Program details and procedures for their reading

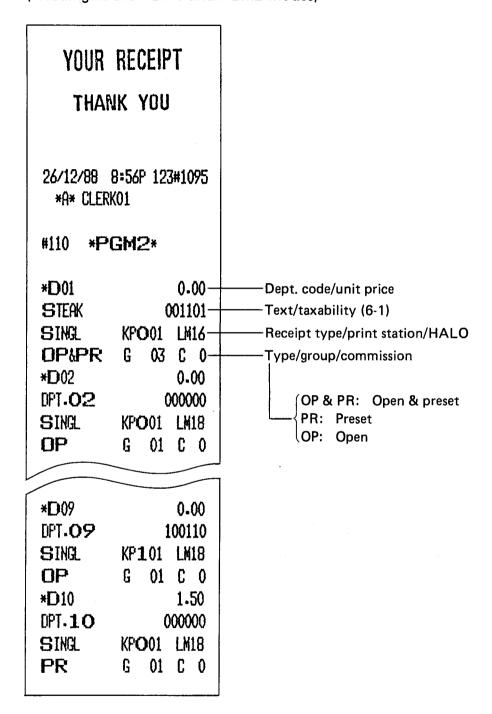
Program for:	Mode switch position	Job code no.	Procedure	Related job code nos.
1 Departments	PGM2 or PGM1	110	→ 110 → ③ → Start dept. no. For individual reading End dept. no. → TL	110, 210, 211 212, 214, 215 218
2 PLUs/ subdepartments	PGM2 or PGM1	120	For individual reading End PLU no. TL	120, 220, 221 222, 224, 225 228, 255, 256 258
③ PLU stock	PGM2 or PGM1	125	For individual reading End PLU no. T L	125, 126, 127 128
Dept. and PLU codes for direct keys	PGM2	219	→ 219 → 🛞 → Start key no. For individual reading → End key no. → T L	219, 229
5 Clerks	PGM2 or PGM1	140	→ 140 → <u>⊗</u> — TL	141, 144, 240 242
6 Cashiers	PGM2 or PGM1	150	→ 150 → <u>®</u> — TL	154, 250
7 Function preset	PGM2 or PGM1	130	→ 130 → ⑧ → Start func. no. ☐ For individual reading ■ End func. no. ☐ T L	130, 230, 231 232, 233, 234 235, 260, 261 262, 263

Program for:	Mode switch position	Job code no.	Procedure	Related job code nos.
8 Error messages	PGM2 or PGM1	103	→ 103 → <u>⊗</u> — TL	265
Guest check numbers (GLU/PBLU codes)	PGM2	280	$\longrightarrow 280 \longrightarrow \textcircled{\$} \longrightarrow \begin{array}{ c c c c c c c c c c c c c c c c c c c$	280, 281
Miscellaneous presets (1)	PGM2 or PGM1	100	→ 100 → 🛞 — TL	205, 223, 227 236, 237, 270 271
Miscellaneous presets (2)	PGM2 or PGM1	101	→ 101 → <u>®</u> — TL	264, 274, 294
Miscellaneous presets (3)	PGM2 or PGM1	102	→ 102 → <u>③</u> — TL	290, 291, 292 295, 296, 297 298, 299
(13) Set PLUs	PGM2 or PGM1	126	$\rightarrow 126 \rightarrow \textcircled{\$} \rightarrow \textcircled{Start}$ $\rightarrow \text{PLU no.}$ $\rightarrow \textcircled{For individual reading}$ $\rightarrow \textcircled{\$} \rightarrow \textcircled{End PLU no.} \rightarrow \textcircled{TL}$	226
(14) Free texts	PGM2	284	→ 284 → ③ → Start text no. For individual reading	284

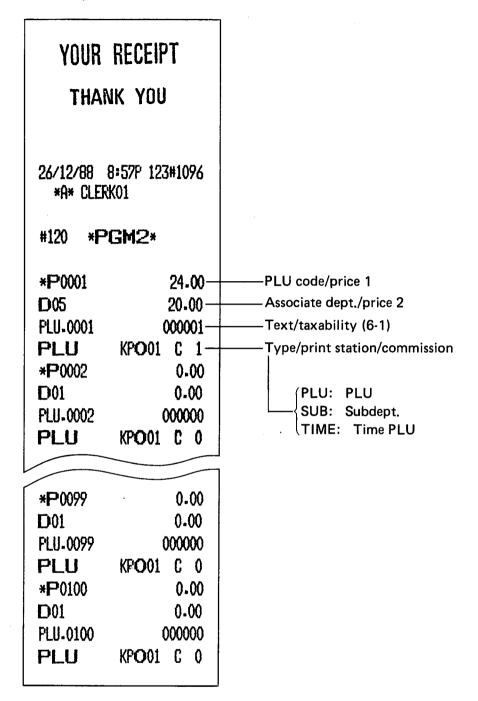
Note: To take the reports of the above readings on a slip printer (option), press the SLIP key in place of the TL key.

(2) Sample printouts

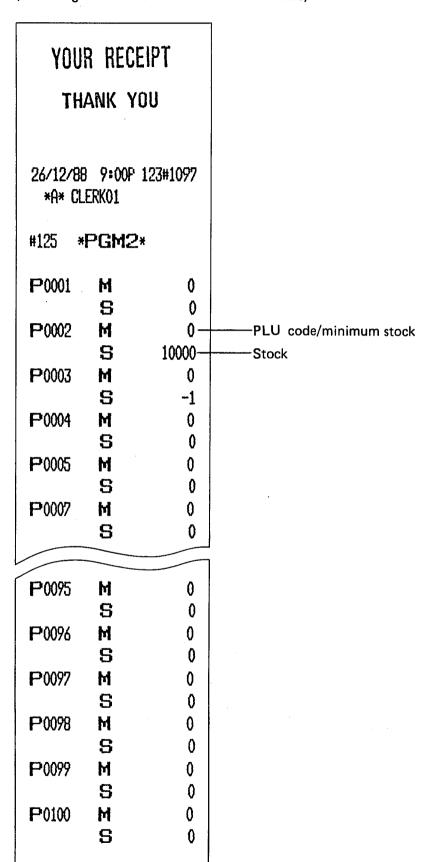
1 Reading of programmed items for departments (Reading in the PGM1 and PGM2 modes)



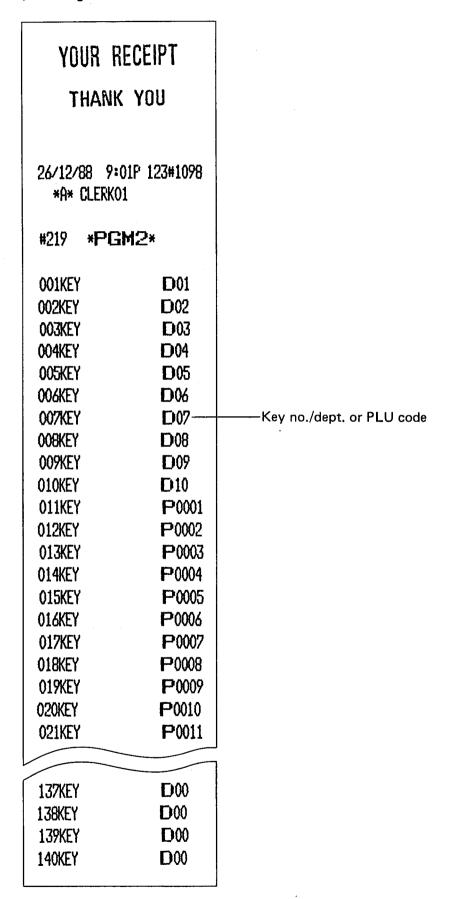
2 Reading of programmed items for PLUs/subdepartments (Reading in the PGM1 and PGM2 modes)



3 Reading of PLU's stock (Reading in the PGM1 and PGM2 modes)



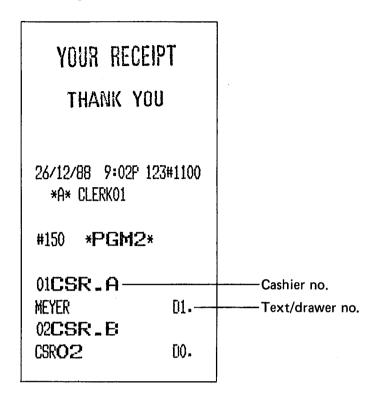
4 Reading of programmed dept. and PLU codes for direct keys (Reading in the PGM2 mode)



5 Reading of programmed items for clerks (Reading in the PGM1 and PGM2 modes)

YOUR RECEIPT THANK YOU 26/12/88 9:02P 123#1099 *A* CLERK01 *PGM2* #140 01CLK#01 CLERK01 0000000 0001-9999 02CLK#02--Clerk no./clerk code PETERS 0000001-Text/functional programmability 1001-1003-Authorized GLU/PBLU code 03CLK#03 CLERK03 0000000 0001-9999 04CLK#04 CLERK04 0000000 0001-9999 05CLK#05 CLERK05 0000000 0001-9999 06CLK#06 CLERK06 0000000 0001-9999

6 Reading of programmed items for cashiers (Reading in the PGM1 and PGM2 modes)



7 Reading of programmed free texts (Reading in the PGM2 mode)

YOUR RECEIPT THANK YOU

26/12/88 9:09F 123#1108 *A* CLERK01

#284 *PGM2*

#01 HARD

#02

TEXT02

#03

TEXT03

#04

TEXT04

#05

TEXT05

#06

TEXT06

#07

TEXT07

#17

TEXT17

#18

TEXT18

#19

TEXT19

#20

TEXT20

Reading of programmed items for functions (Reading in the PGM1 and PGM2 modes)

YOUR RECEIPT
THANK YOU
26/12/88 9:03P 123#1101 *A* CLERKO1
#130 *PGM2*
F001 *DEPT TL F002 *DEPT(-) F003 *HASH TL F004 %1 ITEM -10.00%
F005 %2 SETL 10.00%
F008 (-)1 SETL LM. 16 F010 DIFFER F011 TAXABLE1 F012 TAXABLE2 F013 TAXABLE3 F014 TAXABLE4 F015 TAXABLE5 F016 TAXABLE6 F017 VAT 1
0.0000 0.00 F018 VAT 2 0.0000 0.00

F019 VAT 3	
	0.0000
	1.00
F 020 VAT 4	
	0.0000
	0.00
F021 VAT 5	0-00
• VET VIII O	0.0000
	0.00
F 022 VAT 6	V•00
ר טבב אוו ט	0.0000
	0.000
FO23 NON TAX	0.00
• • • • • • • • • • • • • • • • • • • •	
F024 NET1	
F025 NET2	
FO26 REFUND	
F027 0	
FO28 MODE	
F029 MGRØ	
FO30 HASH RF	
F031 HASH o	
F032 VAT SFT	
F 033 TAX DELE	
FO34 VP CNT	
FF035 SLIP CNT	
F 036 NO SALE	
F037 ***PEAL	
F038 ***NBAL	
FO39 G.C.CNT	
F 040 ***RA1	
	LM. 18
F041 ***RA2	
	LM. 18
F042 ***F0	·
	LM. 18
FO43 DEPOSIT	
	LM. 18
F-044 DEPOS(-)	
	LM. 18

To be continued on the next page.

F045 CASH 000 LM. 18
CH-LM- 18
000 LM. 18
CH-LM- 18 F048 CREDIT1
000 LM. 18 CH-LM. 18
F049 CREDIT2 000 LM. 18
CH-LM. 18
F 056 EXCHNG1 0.0000
F-059 ***CID 9999999.99
F060 CASH IS
FO61 CA/CH ID
F062 CHK/CG
F063 GUEST
F064 TRAN-DUT
F065 TRAN-IN
F066 COM.SAL1
0.00
FO67 COM-SAL2
0.00
FO68 COM-SAL3
FO69 NON COM
F 070 ORDER TL
F 070 DRUCK 1L
F 072 WK TIME
F 073 SER.CHRG
0.00
F074 TIME TTL
F075 NET 1
F 076 NET 2

F077 NET 3	
F 078 NET 4	
F 079 NET 5	
F080 NET 6	
F081 SUBTOTAL	
FO82 MDS SBTL	
F 083 DIFF ST	
F084 ***TOTAL	
F085 CHANGE	
F086 DUE	
FO87 ITEMS	
F088 START	
F089 Transfer	
F090 VOID	
F091 COPY	
F092 B.T.	
F 093 G-C-RCPT	
F094 G.C.COPY	
F095 SLIP PR	
F 096 NEXT P.	
F097 AVE. F098 GROUP	
F 099 GROUP TL	
F100 CCD	
F101 DIFFER	
F102 O -P	
F103 COM.AMT1	
F104 COM-AMT2	
F 105 CDM ANT3	
F106 BILL BAL	
F107 FREE GLU	
F108 T-TABLE	
F109 T-GUEST	
F110 T-BILL	
F111 I.GUEST	
F112 I-BILL	
F113 AVE.ITEM	

To be continued on the next page.

- F114 *GT*
- F115 *DPT*
- F116 *GROUP *
- F117 *PLU*
- F118 *STOCK .*
- F119 *TRANS.*
- F120 *CID*
- F121 *CLERK *
- F122 *CASH. *
- F123 *HOURLY*
- F124 *DAILY *
- F125 *GLU*
- F126 *CHIEF *
- F127 *SALES *
- F128
- F129
- F130
- F131
- F132
- F133
- F134

(9) Reading of programmed set PLUs(Reading in the PGM1 and PGM2 modes)

YOUR RECEIPT THANK YOU

26/12/88 9:04P 123#1102 *A* CLERK01

#126 *PGM2*

P0011 P0012 P0013-

P0014 P0015

-Set PLU/linked PLU code (max. 6 PLUs)

P0016 P0017

Reading of programmed guest check numbers (GLU/PBLU codes) (Reading in the PGM2 mode)

YOUR RECEIPT THANK YOU

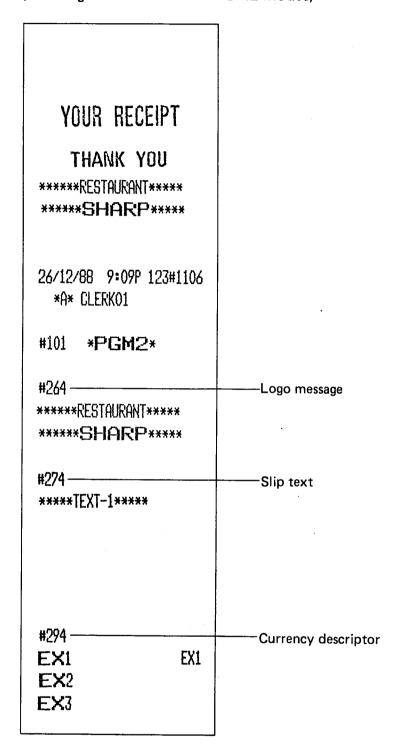
26/12/88 9:08P 123#1104 *A* CLERK01

#280 *PGM2*

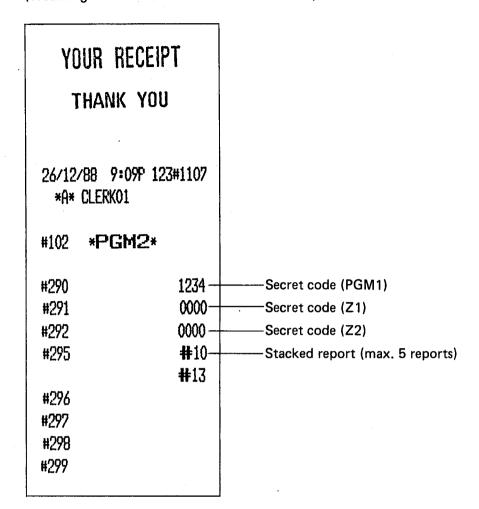
GLU 1000-1005 1000 1001 1002 1003 1004 1005 (1) Reading of miscellaneous preset — (1) (Reading in the PGM1 and PGM2 modes)

YOUR RE		
26/12/88 9:0 *A* CLERK01 #100 *PGh		
#205 #223	10000— 0 15 1—	General report format
#227 L-N0- 1 2 3	F0001 P0019 P0037	PLU level
#236 — 0000001000 00000000000 #237 — 000000000	IN REG IN MGR	Operating mode Bank note key
K-N0. 1 2 3	10-00 0-00 0-00	Dank Hote key
#270 #271	00 00 0 1-	Slip/validation print Optional feature

(12) Reading of miscellaneous presets — (2) (Reading in the PGM1 and PGM2 modes)



(Reading of miscellaneous presets — (3) (Reading in the PGM1 and PGM2 modes)



(Reading of programmed error messages (Reading in the PGM1 and PGM2 modes)

YOUR RECEIPT THANK YOU

26/12/88 9:25P 123#1111 *A* CLERK01

#103 *PGM2*

#01	entry error
#02	MISOPERATE
#03	no record
#04	PAPER EXPTY
#05	SECRET CODE
#06	NOT FREE
#07	MEMORY FULL
#08	INSERT SLIP
#09	NO AUTHORITY
#10	RECORD LOCK
#11	STOCK EMPTY
#12	SLIP SET
#13	entry err zi
#14	CLOSE STORE
#15	*L0CK(Z)*
#16	EUSY
#17	INLINE ERROR
#18	no response
#19	POWER OFF
#20	MOTOR LOCK
#21	BUFFER FULL
#22	HARD ERROR
#23	OFF LINE
#24	WP ERROR
#25	OPEN STORE
#26	SIGN ON
#27	TINE PLU
#28	error saved
#29	RETRY ?
#30	CHECK#

TYPE OF RECEIPTS

The following 6 types of receipts can be printed in the REG or VOID mode. Your machine can be programmed for one of them.

- Addition receipt type
- Addition + total receipt type
- Single/double receipt type
- Single/double + total receipt type
- Single/double + addition mode receipt type
- Addition + single receipt type

1. Addition receipt type and addition + total receipt type

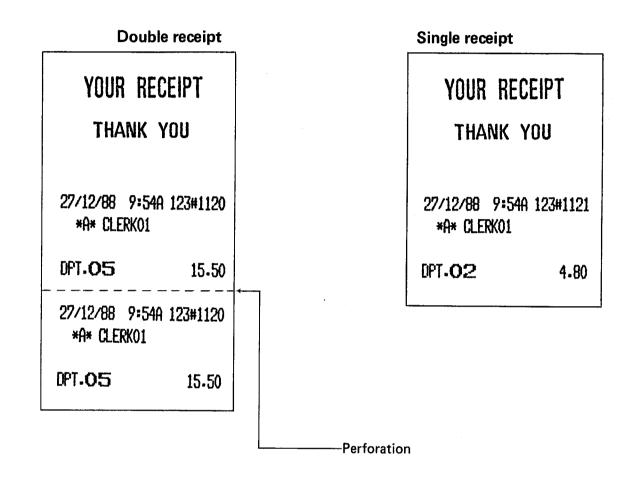
• The addition receipt is of standard type. Several items can be printed on one receipt. If "Addition + total" type is selected, the addition receipt is printed first and then the total receipt is printed.

Addition receipt			Addition -	+ total receipt
YOUR RECEIPT			YOUR RECEIPT	
InAi	NK YOU		IHAN	IK YOU
27/12/88 *A* CLER	9=47A 123#1112 K01		27/12/88 S *A* CLERK	?=47A 123#1112 01
DPT-02	15-00		DPT-02	15-00
OPT.O3 SUBTOTAL	3-00 18-00		DPT-03 SUBTOTAL	3-00 18-00
CASH	18.00		CASH	18.00
		Perforation ———	27/12/88 9: *A* CLERK	:47A 123#1112 01
			CASH	18.00

2. Single/double receipt type

One receipt is issued for each item.

 When your register is programmed for single/double receipt type, it prints single or double receipts — which receipt is printed depends upon the programming for departments in the PGM2 mode — with department or PLU/subdept. entries and automatically handles each sales transaction as a cash deal.



3. Single/double + total receipt type

One receipt is issued for each item.

• When your register is programmed for single/double + total receipt type, it can print a single or double receipt with each department or PLU/subdept. entry and then handle each sales transaction as a cash, credit or cheque deal.

YOUR RECEIPT THANK YOU 27/12/88 9:58A 123#1124 *A* CLERKO1 DPT.O5 15.50 27/12/88 9:58A 123#1124 *A* CLERKO1 DPT.O5 15.50 Perforation

Single receipt

YOUR RECEIPT THANK YOU	
27/12/88 10:00A 123#1125 *A* CLERK01	
DPT- 02 4.80	

Total receipt

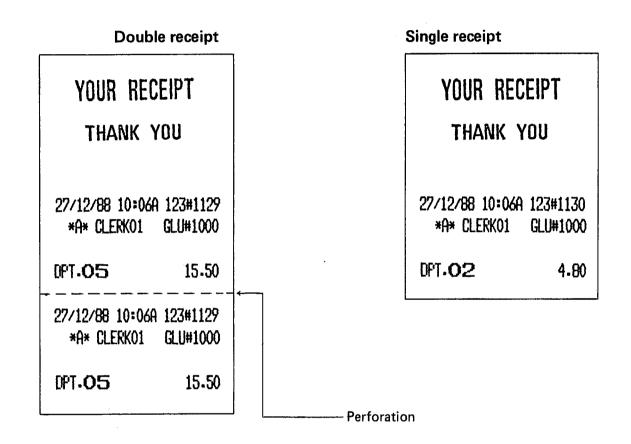
YOUR RECEIPT THANK YOU	
27/12/88 10: *A* CLERKO	00A 123#1125 1
SUBTOTAL	4-80 10-00%
%2	0-48
SUBTOTAL	5-28
CASH	10-00
CHANGE	4.72

4. Single/double + addition mode receipt type

This type is the same as "Single/double + total" type except that some part of receipt (such as PBAL, NBAL or total part) is not issued.

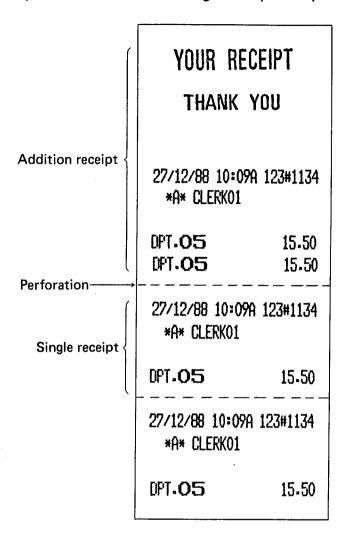
One receipt is issued for each item.

• When your register is programmed for single/double + addition type, it can print a single or doube receipt with each department or PLU/subdept. entry and then handle each sales transaction as a cash, credit or cheque deal.



5. Addition + single receipt type

• When your register is programmed for addition + single receipt type, the addition receipt is printed first and then single receipts are printed.



RECEIPT SHIFT

You can shift the printing mode of items for the receipt.

Any receipt type selected can be shifted as follows by pressing the RCPT key before item entry.

But, "Addition + single" receipt type can not be shifted.

(Note: The receipt type can not be changed to any other type by pressing the ROPT key.)

Addition receipt type
 Addition + total receipt type
 Single/double receipt type
 Single/double + total receipt type
 Single/double + addition mode receipt type
 Single/double + addition mode receipt type

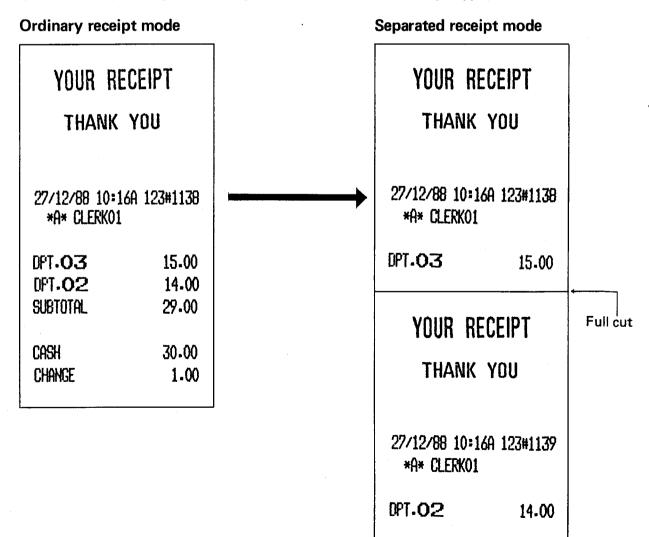
Cancellation of receipt shift

For the single/double receipt type:

The initial receipt type can be resumed by pressing the RCPT key again.

For any receipt types other than the above, the initial receipt type is automatically resumed after an entry has been made by pressing a media key (TL , CH1 or CH2 , CR1 thru CR8).

Example: When your register is programmed for addition receipt type;



REGISTRATIONS

* Preparations for entries

- (1) Put the operator key in the mode switch and turn it to the REG position.
- (2) Put a clerk key in the cashier/clerk switch.
- (3) Check to see if your register has both the journal and receipt rolls. If you register lacks these rolls or has low rolls, install new paper rolls or replace the old rolls with new ones according to "INSTALLING AND REMOVING THE PAPER ROLL".

Error warning

In the following examples, your register will go into an error state accompanied with a warning beep and the error message "MISOPERATE" or "ENTRY ERROR" on the display. Clear the error state by pressing the CL key and take a proper action.

- (1) When you enter an over 16-digit number (entry limit overflow):
 - Cancel the entry and re-enter a correct number.
- (2) When you make an error in key operation:
 - Clear the error and operate keys correctly.
- (3) When you make an entry beyond a programmed amount entry limit:
 - Check to see if the entered amount is correct. If it is correct, it can be rung up in the MGR mode. Contact your manager.
- (4) When an including-tax subtotal exceeds eight digits:
 - Clear the subtotal and press the TL, CH or CR key to finalize the transaction.

1. Clerk assignment

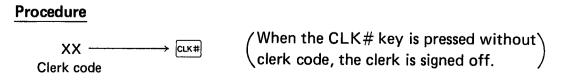
Clerks can be assigned on three systems: Clerk push-button key, clerk code entry, and real clerk key systems. For how to select these systems, consult your local dealer.

Clerk push-button key system

If you select this system, clerks can be assigned by pressing corresponding clerk push-button keys. When the clerk push-button key is pressed again, the clerk is signed off.

Clerk code entry system

If you select this system, any clerk cannot perform registrations without entering his or her clerk code in advance.



Real clerk key system

If you select this system, any clerk cannot be assigned without inserting a corresponding real clerk key. Any registration cannot be performed unless a real clerk key is inserted.

2. Cashier assignment

If you need cashier assignment, contact your local dealer. Cashier assignment can be accomplished by inserting a real cashier key.

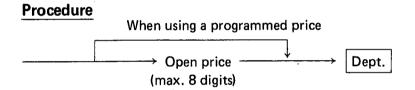
Any registration cannot be performed unless a real cashier key is inserted.

3. Item entries

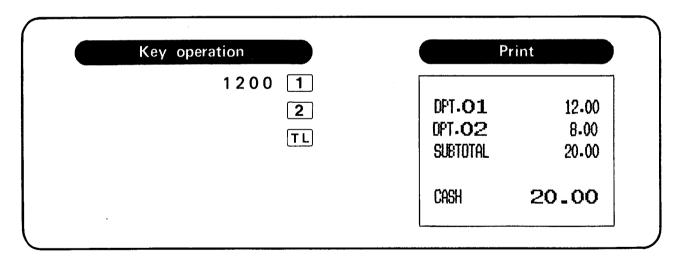
(1) Single item entries

• Entries into departments

Enter a unit price and press a department key. If you use a programmed unit price, press a department key only.

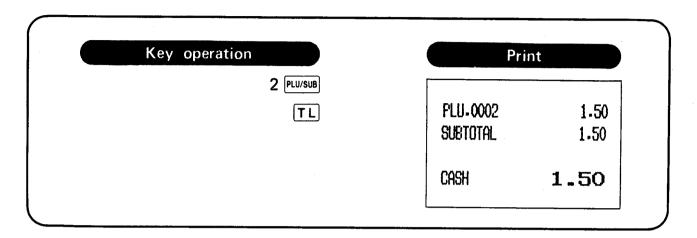


Open price: Less than a programmed upper limit



• PLU entries (indirect PLU entries)
Enter a PLU number and press the PLU/SUB key.

Procedure

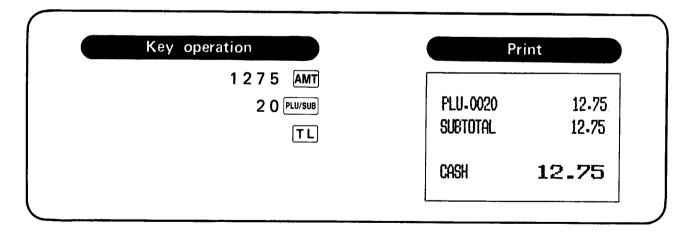


• Subdepartment (open PLU) entries Follow this sequence:

Procedure

Open price \longrightarrow AMT \longrightarrow PLU code \longrightarrow PLU/SUB (max. 8 digits)

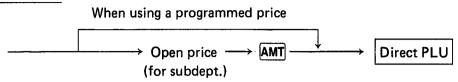
Open price: Less than a programmed upper limit



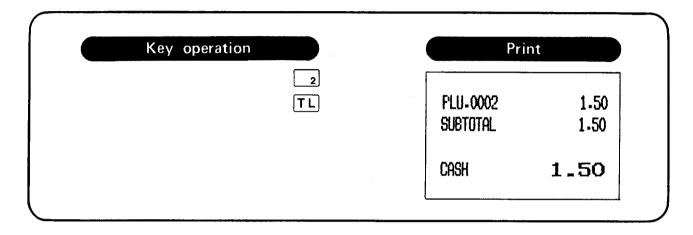
• Direct PLU (Menu) entries

Follow this sequence:

Procedure



Open price: Less than a programmed upper limit



(2) Repeat entries

You can use this function for entering two or more of the same item.

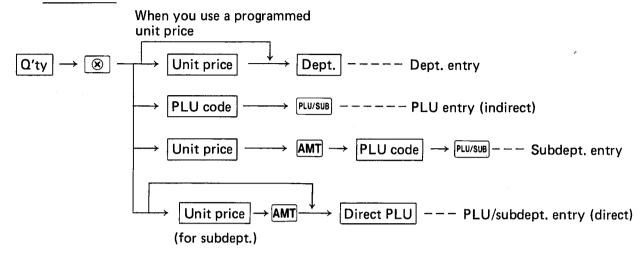
Key operation	P	rint
Repeated 200 3		
lepartment 3	DPT-03	2-00
entry 3	0PT-03	2-00
·	DPT-03	2-00
Repeated 1 0 PLU/SUB	FLU-0010	2.50
PLU entry PLU/SUB	PLU-0010	2.50
indirect PLU)	PLU-0010	2-50
(285 AMT)	PLU-0051	2-85
Repeated	PLU-0051	2.85
ntry	FLU-0002	1.50
PLU/SUB	FLU-0002	1.50
Repeated	PLU-0002	1.50
Direct PLU	Subtotal	23-70
ntry 2	CASH	23.70

(3) Multiplication entries

Use this feature when you need to enter two or more of the same item.

This feature helps when you sell a large quantity of items or need to enter quantities that contain decimals.

Procedure

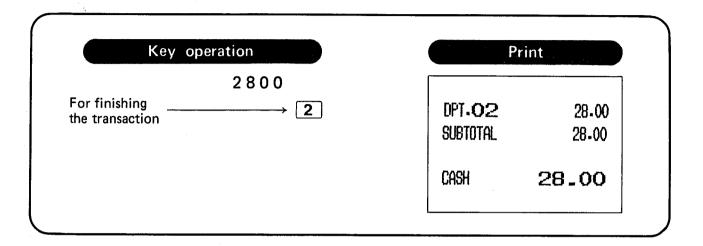


- Q'ty: up to six digits (4-digit integer + 2-digit decimal, or 3-digit integer + 3-digit decimal)
- Unit price: Less than a programmed upper limit (max. 999999)
- Q'ty x unit price: up to eight digits

Key op	eration	Prin	
PLU entry { Indirect PLU)	5 🛞 165 3 15 🛞 3 PLU/SUB	5X DPT- 03 15 X PLU-0003	1.65 8.25 7.20 108.00
Subdept. entry	2 5 (8) 3 0 0 (AMT) 2 0 (PLU/SUB)	25X PLU-0020 5X	3.00 75.00 1.50
Direct PLU {	5 ®	PLU-0002 SUBTOTAL CASH 1.9	7.50 198.75

(4) Single item cash sale (SICS) entries

- This function is useful when a sale is for only one item and is for cash; such as a pack of cigarettes. This function is applicable only to those departments that have been set for SICS or to their associated PLUs or Direct PLU.
- The transaction is finalized and the drawer opens as soon as you press the department key.



Note: If a ring-up to a department or PLU/Direct PLU set for SICS follows the ones to departments or PLUs/Direct PLU not set for SICS, it does not finalize and results in a normal sale.

4. Display of subtotals

Your register provides these two types of subtotals:

(1) Merchandise subtotal

Press the ST key at any point during a transaction. Then the subtotal will appear in the display and the "ST" lamp will light up.

(2) Difference subtotal

Press the press the press key at any point during a transaction. The subtotal of entries that have been made so far (or that have been made after the last depression of that key) will be displayed and printed.

Key operation	B	rint
500 1		
1000 2	0PT- 01	5.00
1500 3	DPT-02	10-0
DIFFER	DPT- 03	15.00
	DIFF ST	30.0
2000 1		(1)
2500 2	DPT-O1	20.0
DIFFER	DPT- 0 2	25.00
ST	DIFF ST	45.0
		(2)
TL	SUBTOTAL	75. 0
	CASH	<i>7</i> 5.00

Note: Your machine can be programmed to perforate the receipt when the is pressed. If you need this programming, contact your local dealer.

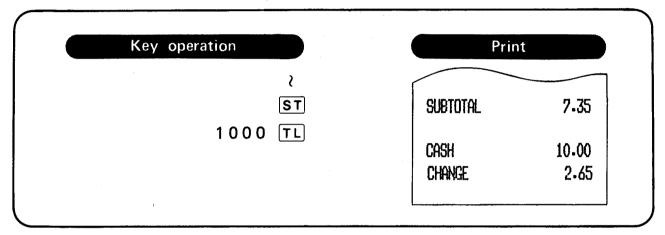
5. Finalization of transaction

(1) Cash or cheque tendering

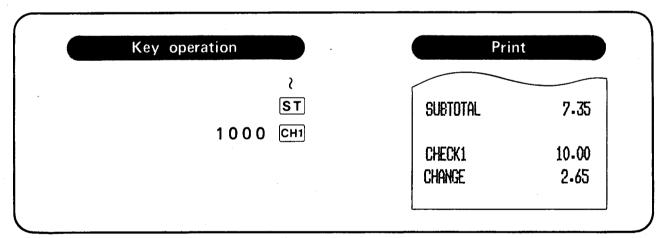
Press the ST key to get a subtotal, enter the amount tendered by your guest, then press the TL key if it is a cash tender or press the CH key if it is a cheque tender.

When the amount tendered is greater than the amount of the sale, your register will show the change due amount. Otherwise your register will show a deficit and the message "DUE".

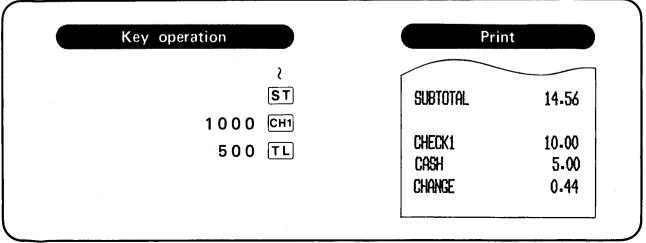
Cash tendering



• Cheque tendering

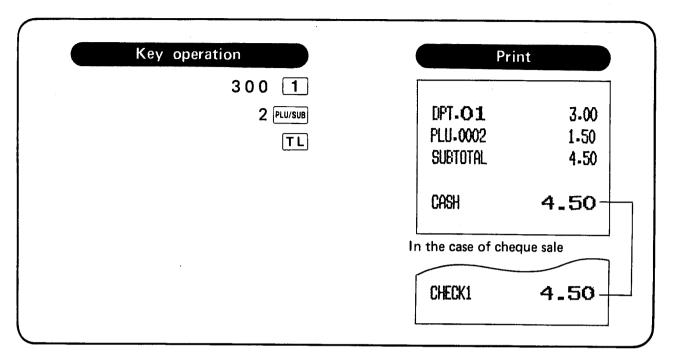


(2) Mixed tendering (cheque + cash)



(3) Cash or cheque sale that does not need a tender amount entry

Enter items and press the TL key if it is a cash sale or press the CH key if it is a cheque sale. Your register will display the total sale amount.

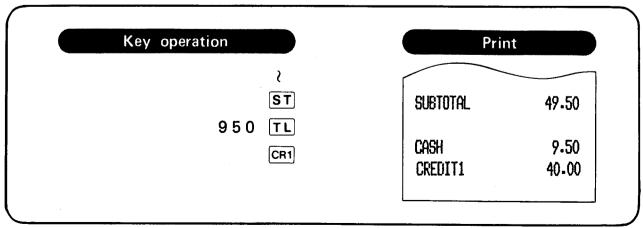


(4) Credit sale

Enter items and press the credit key

Key operation	Pi	rint
2500 1		
3250 2	DPT-O1	25.00
CR1	DPT-02	32.50
	SUBTOTAL	57.50
	CREDIT1	57.50

(5) Mixed-tender sale (cash or cheque tendering + credit sale)



Note: For cheque tendering, press the CH key instead of the TL key.

(6) Tender operation with bank note keys

Amount tendered entry can be made more simply by pressing BANK NOTE keys. The three BANK NOTE keys are available. If you need there keys, contact your local dealer.

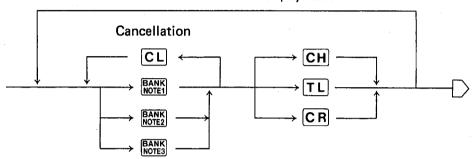
You can program a denomination for each BANK NOTE key.

• Tender operation

When a BANK NOTE key is pressed, the programmed denomination will appear in the display just like in a numeric entry.

Procedure

For additional payment



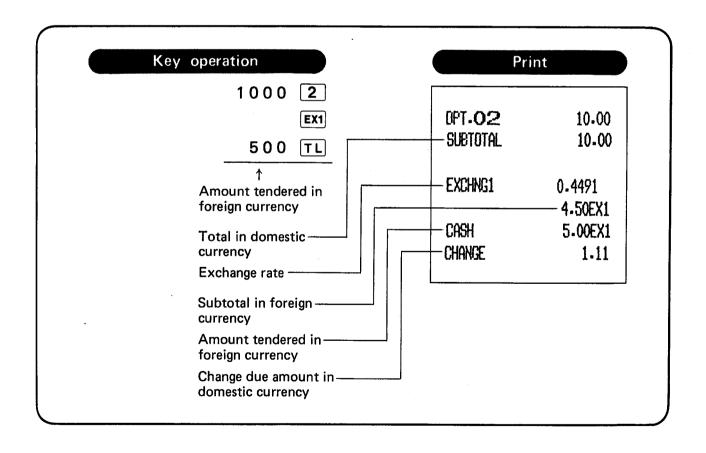
Key operation	Display
}	
ST	4.80 ST
BANK NOTE1	10.00
TL	5.20 →

6. Currency exchange

The register allows payment registrations in a maximum of three kinds of foreign currency.

Procedure For additional payment in foreign currency For exact amount payment EX1 Sale registration Amount-tendered registration in (Dept. registration. TL PLU/subdept. domestic registration, etc.) currency EX3 For additional payment in domestic currency The register displays the subtotal in the corresponding currency.

*NK: Enter an amount tendered in the corresponding currency. (max. 8 digits)

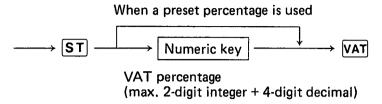


7. Computation of VAT/TAX

The machine may be programmed for the following four tax systems by your dealer.

(1) Manual VAT 1 system

The machine performs the VAT calculation for the then subtotal.



(2) Manual VAT 1 — 6 system

$$\longrightarrow$$
 ST \longrightarrow VAT

The VAT 1-6 system provides the VAT calculation for taxable 1-6 subtotals, which is performed at the preset percentages when the VAT key is pressed.

(3) Auto VAT 1 — 6 system

When a transaction has been finalized (or when the first amount tendering is done), the machine calculates VATs for taxable 1-6 subtotals, using the corresponding preset percentages.

(4) Auto TAX 1-6 system

When a transaction has been finalized (or when the first amount tendering is done), the machine calculates taxes for taxable 1-6 subtotals, using the corresponding preset percentages and adds the calculated taxes to the subtotals.

Key op	eration	Pr	int
When the manual VAT 1—6 system s selected.	550 8 ST VAT TL	DPT.OB SUBTOTAL TAXABLE1 VAT 1 NET 1	5.50 5.50 5.50 1.83 3.67
		CASH	5.50

8. VAT shift entries

This feature is intended to shift the tax status of a particular department or PLU programmed for taxable 1 or taxable 1 and taxable 3 when such a department or PLU is entered.

- 1. When the VAT shift entry is made for a particular department or PLU programmed for taxable 1, their tax status shifts to taxable 2.
- 2. When this entry is made for a particular department or PLU programmed for taxable 1 and taxable 3, the tax status "taxable 1" remains unchanged, but the other, "taxable 3", shifts to tax delete.

Procedure

Press the SHIFT key to activate the VAT shift entry prior to entering department(s) or PLU(s) concerned.

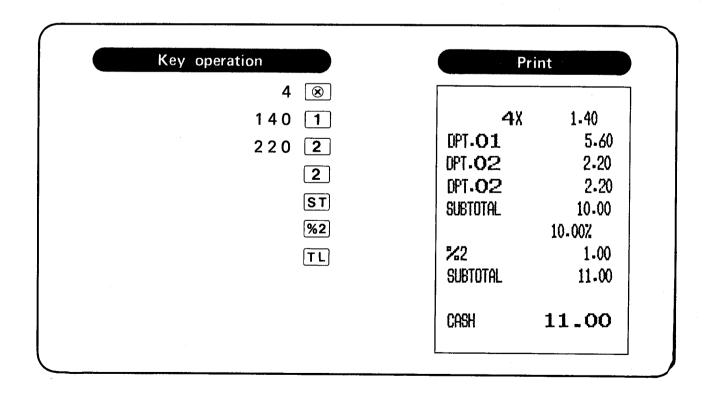
Key operation	Pr	rint
ST VAT	DPT.OB SUBTOTAL TAXABLE2 VAT 2 NET 2	5.50 5.50 5.50 0.26 5.24
	CASH	5.50

9. Percent calculations (premium or discount)

- Your register provides the percent calculation for the subtotal or each item entry.
- Percentage: 0.01 to 100.00% (Less than a programmed upper limit)
- (1) Percent calculation for item entries.

Key operation	Print	
800 <u>1</u> %1 715 <u>2</u>	0PT- 01	8.00 -10.00%
7 · 5 %1 TL	%1 DFT. 0 2	-0.80 7.15 -7.5%
	%1 Subtotal	-0 -5 4 13 - 81
	Cash	13.81

(2) Percent calculation for the subtotal



10. Deduction

Your register allows you to deduct a certain amount less than a programmed upper limit after the entry of an item or the computation of a subtotal.

(1) Deduction for item entries

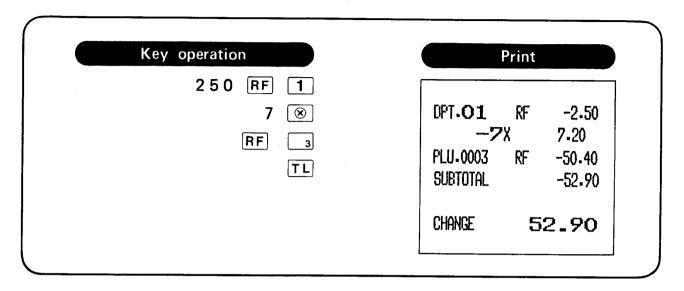
Key operation	Pri	nt
850 2		
50 ⊝1	DPT-02	8.50
TL	(-)1	-0.50
(* L)	Subtotal	8-00
	CASH	8.00

(2) Deduction for the subtotal

Key operation		rint
710 3 500 2 ST 25 ⊝2	DPT.03 DPT.02 (-)2 SUBTOTAL	7.10 5.00 -0.25 11.85
	CASH	11.85

11. Refund entries

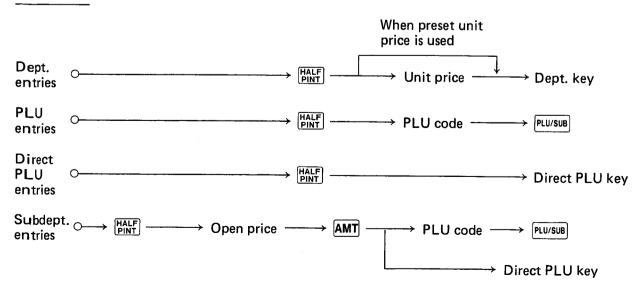
- For refund entry, press the RF key first and then the department, PLU and direct PLU keys.
- Repeated or multiplied refund entries are also possible.



12. Half-pint entries

- The half-pint function enables entry of half a unit price. For details, contact your dealer.
- Half-pint entries can be made for departments and PLUs.
- For entries, press the HALF key first and then the department, PLU and direct PLU keys.

Procedure



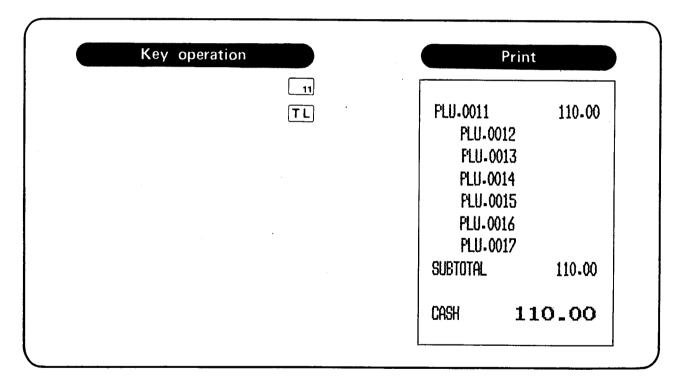
13. No sale (exchange)

Simply press the NS key without any entry. The drawer will open and the machine will print the "NO SALE" on both the journal and the receipt.

#000000000045678 NO SALE

14. Set PLU entries

Operation is the same as for normal PLU's. When a set PLU is entered, the linked PLU's label is printed automatically.



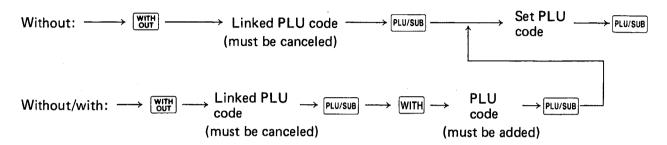
15. With/Without function

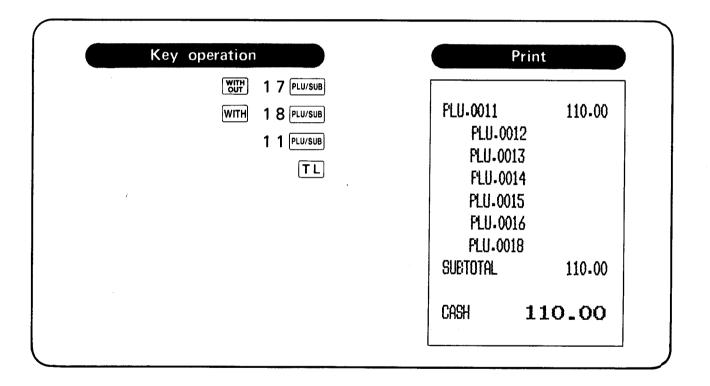
Only one menu (linked PLU) of the set PLU can be modified (canceled or exchanged for another) temporarily by using with and with keys.

Without: Cancel a linked PLU.

Without/with: Exchange a linked PLU for another.

Procedure





16. PLU level shift (for direct PLU)

The shift can double or triple the number of PLUs on your register without adding additional direct PLU keys.

You can use direct PLUs in three levels by utilizing shift keys <a>L1 , <a>L2 , and <a>L3 .

These keys have the following functions.

- L1: Shifts the PLU level from level 2 or 3 to level 1 (normal level).
- L2: Shifts the PLU level from level 1 or 3 to level 2.
- L3: Shifts the PLU level from level 1 or 2 to level 3.

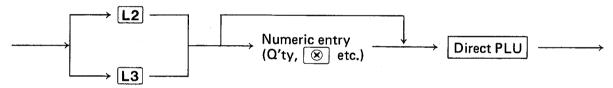
You must program your register in the PGM2 mode to select one of the two PLU level shift modes — automatic return mode* and lock shift mode** — and decide whether to allow PLU level shift in the REG and/or MGR modes.

- * The automatic return mode automatically shifts the PLU level back to level 1 after a direct PLU key is pressed.
- ** The lock shift mode holds the current PLU level until depression of a PLU level shift key.

• Automatic return mode

If you shift the PLU level in the automatic return mode, press a desired PLU level shift key before numeric entry.

Key entry sequence

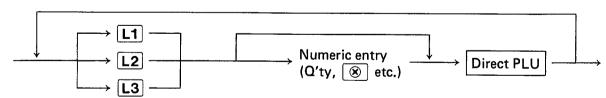


Lock shift mode

If you shift the PLU level in the lock shift mode, press a desired PLU level shift key before numeric entry.

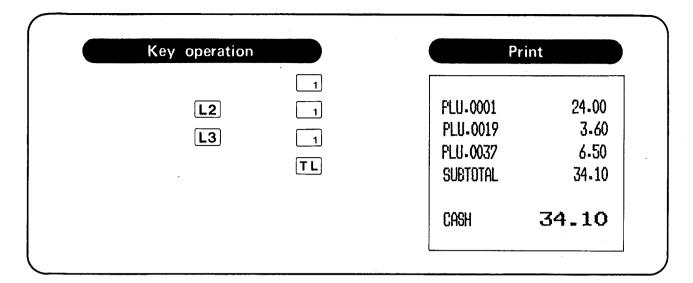
Key entry sequence

To shift the level of another PLU



Note: If you select the automatic return mode, it is not necessary to use the L1 key on the keyboard, but if you select the lock shift mode, it is necessary to use the key.

• When your register has been programmed for the automatic return mode:



• When your register has been programmed for the lock shift mode:

Key opera	ation	Pr	int
L1 L2		PLU-0001	24.00
L3	1	PLU-0019 PLU-0037	3-60 6-50
	TL	SUBTOTAL	34-10
		CASH	34.10

17. Unit price shift operation for PLU

Two different price levels can be programmed for each PLU.

The price levels can be changed from one to the other for PLU registrations.

There are two ways available for price level selection:

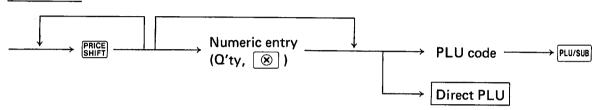
(1) Price level selection by clerk price level programming

Either of price levels 1 and 2 can be assigned to each clerk by programming job #240.

(2) Price level selection by the PRICE SHIFT key

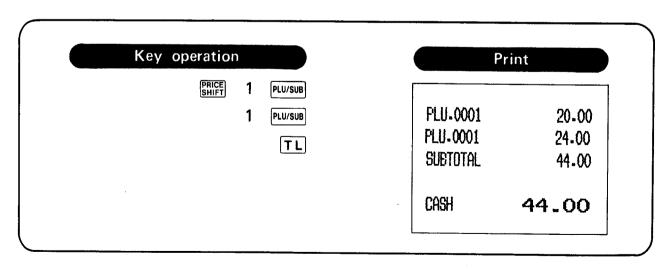
The price level can be changed by pressing the PRICE SHIFT key at the time of a PLU registration.

Procedure

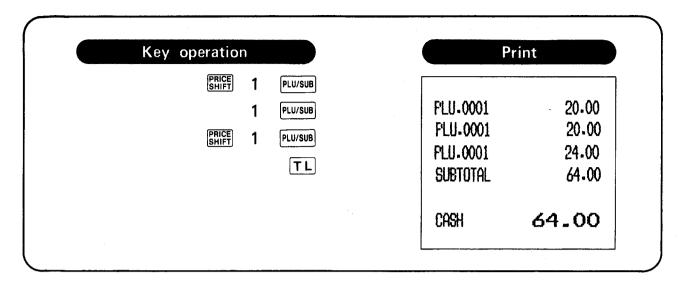


You must program your register in the PGM2 mode to select one of the two price level shift modes — automatic return mode* and lock shift mode** — and decide whether to allow price level shift in the REG and/or MGR modes.

- * The automatic return mode automatically shifts the price level back to level 1 after a PLU entry.
- ** The lock shift mode holds the current price level until depression of the PRICE SHIFT key.
- When your register has been programmed for the automatic return mode:



• When your register has been programmed for the lock shift mode:

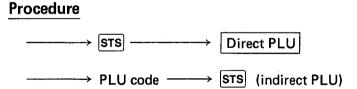


18. Time PLU entries

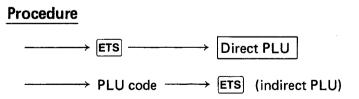
Your register can automatically count the charge for time intervals (such as parking, sports club, billiards, --- etc.) by making a time PLU entry.

Only when you have opened GLU (guest look-up) file, a time PLU entry can be made.

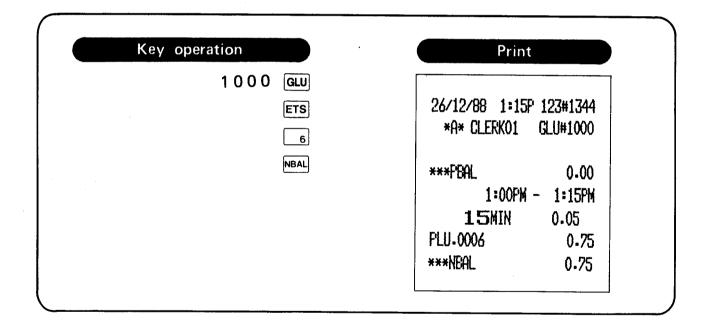
• Start of time sale



• End of time sale

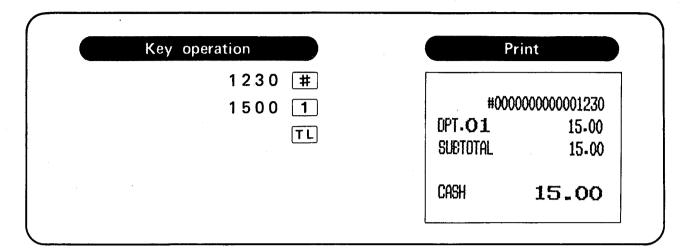


Key operation	Pr	int
1 0 0 0 GLU		-:
STS	26/12/88 1:	00P 123#1342
6	*A* CLERKO	1 GLU#1000
NBAL	***F'[A]_	0-00
	START	1:00FM
	PLU-0006	0.05
	***NBAL	0.00



19. Printing of non-add code numbers

Enter a non-add code number such as a guest code number and credit card number within a maximum of 16 digits and press the # key. The numerical entry can be made at any point during the entry of a sale. Your register will print it at once.



20. Guest check copy

You can use this function when you want to take a copy of guest check.

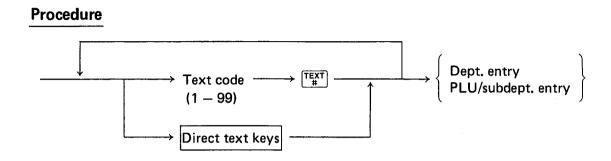
Press the COPY key and make a desired entry.

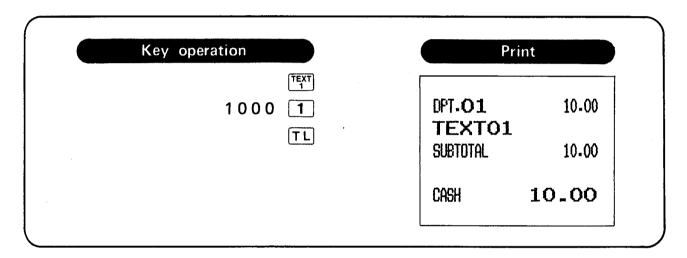
Note: The guest check copy has nothing to do with the memory.

Key operation	Print
2 5 0 1	*G.C.COPY*
450 <u>2</u> 2 330 <u>3</u> TL	DPT-O1 2.5 DPT-O2 4.5 DPT-O2 4.5 DPT-O3 3.3 SUBTOTAL 14.6
	CASH 14.80

21. Free text printing

- Free text programmed in the PGM mode can be printed out by entering the corresponding text code and pressing the FEXT key or by pressing a corresponding direct text key.
- The text has nothing to do with the memory.

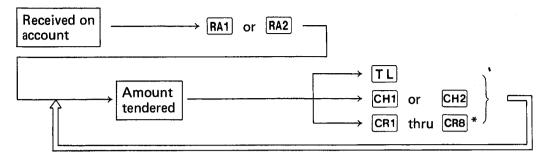




Note: Your register can print max. 4 texts on the receipt for each item entry.

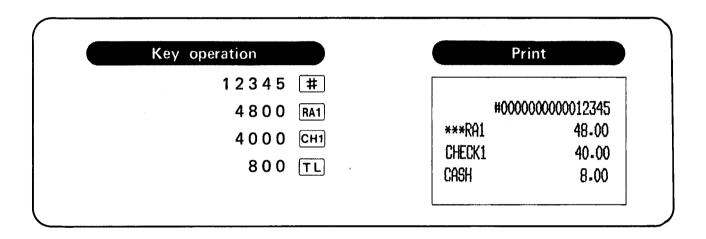
22. Received on account entries

Procedure



When split or mixed tendering is made.

* Of the CR1 through CR8 keys, you may use only the one that is programmed to be capable of entering amounts tendered.



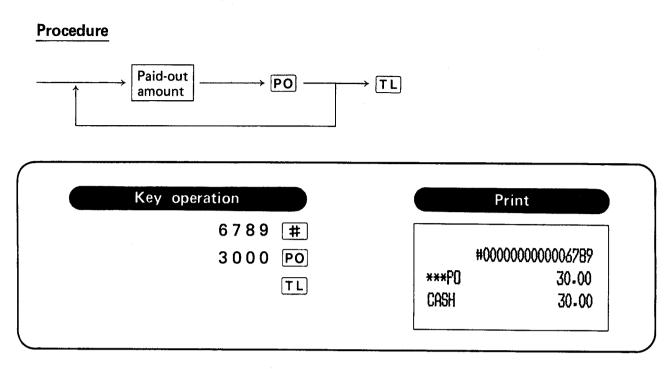
Note: You may choose the direct cash RA procedure instead of the above procedure.

Please consult your dealer to change the procedure.

Revised procedure

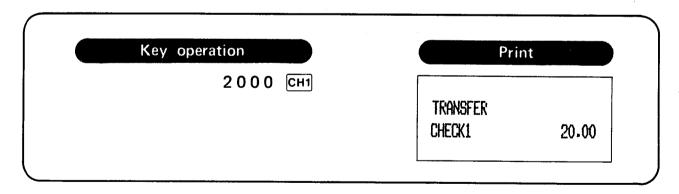


23. Paid out entries



24. Transfer a cash deal into a cheque or credit deal

You can transfer a cash deal into a cheque or credit deal. Enter an amount, then press the CH or CR key.



25. Guest check entries (PBLU/GLU)

Two different guest check entry systems are available. It depends on how your register has been programmed which of these is used.

These are the previous balance lookup (PBLU) system and the guest lookup (GLU) system. Consult your local dealer for their selection.

PBLU system: If this system is selected, the previous balance is automatically loaded by entering a guest check code (= a PBLU code) when reordering occurs.

The details of the order are not stored in the file.

GLU system: If this system is selected, the balance due and the details of the order are stored in the guest check file.

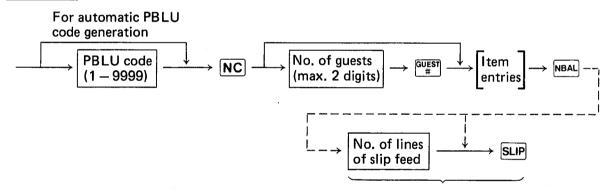
These information is automatically loaded by entering a guest check code (= a GLU code) when reordering occurs.

(1) PBLU system

New guest

For a new guest, open a new guest check and assign a PBLU code.

Procedure



Only when the buffered slip system is selected.

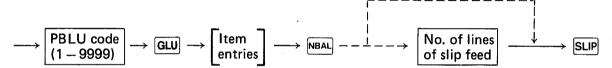
- Note 1: The PBLU code is the number that will be used whenever the guest check must be accessed for reordering or final payment.
- Note 2: Your register can be set up to generate the PBLU code in a sequential fashion. Or, the PBLU code can be entered manually.

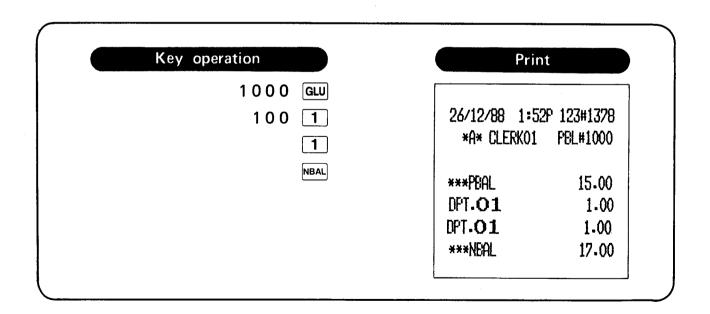
Key operation	Print
1000 NC	
800 2	26/12/88 1:51F 123#1377
700 3	*A* CLERKO1 PBL#1000
NBAL	***PBAL 0.00
	DPT-O2 8.00
	DFT.O3 7.00
	***NBAL 15.00

• Additional ordering

For an existing guest, enter the PBLU code first for automatic PB lookup. (Your register may be programmed to require that a check digit be added to the PBLU code.)

Procedure

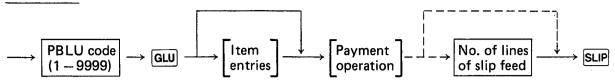




Settlement

Use the following procedure.

Procedure

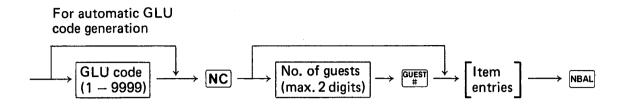


Key operation **Print** 1000 GLU 26/12/88 1:52P 123#1379 1000 CH1 *A* CLERKO1 FEL#1000 700 TL ***PBAL 17-00 SUBTOTAL 17.00 CHECK1 10.00 CASH 7-00

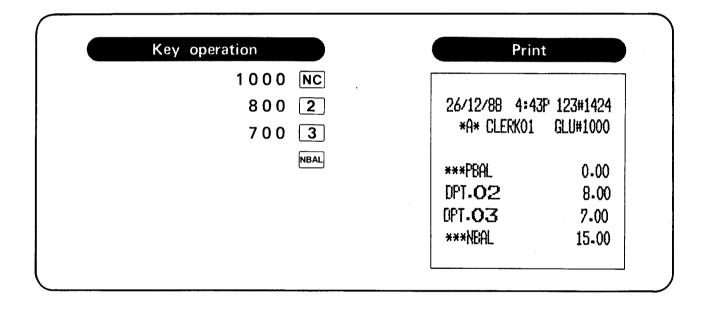
(2) GLU system

• New guest

For a new guest, open a new guest check and assign a GLU code.



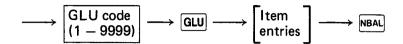
- Note 1: The GLU code is the number that will be used whenever the guest check must be accessed for reordering or final payment.
- Note 2: Your register can be set up to generate the GLU code in a sequential fashion. Or, the GLU code can be entered manually.



• Additional ordering

For an existing guest, enter the GLU code first for automatic guest lookup. (Your register may be programmed to require that a check digit be added to the GLU code.)

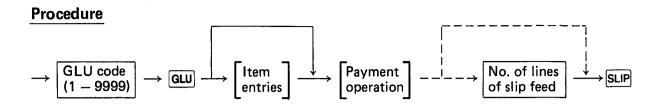
Procedure



Key operation	Print
1000 GLU	
100 1	26/12/88 4:43P 123#1425
1	*A* CLERK01 GLU#1000
NBAL	***PBAL 15.00
	DPT-O1 1-00
	DPT-O1 1.00
	***NBAL 17-00

Settlement

Use the following procedure.



Key operation	Print
1 0 0 0 GLU	
1 0 0 0 CH1	26/12/88 4:43P 123#1426
700 TL	*A* CLERKO1 GLU#1000
	***FBAL 17.00
	SUBTOTAL 17.00
	CHECK1 10-00
•	CASH 7.00

(3) Error messages

If the PBLU/GLU code is incorrectly entered, an error occurs and the machine displays the following message.

Text	Error status
NO RECORD	The PBLU/GLU code is not programmed yet.
NOT FREE	The PBLU/GLU code is in use.
NO AUTHORITY	The clerk has entered a PBLU/GLU code for which he or she is not authorized.
MEMORY FULL	The guest check file is filled up.

26. Service charge

When the payment operation is made for item registrations, the service charge amount is calculated and printed.

You can program a percent rate for calculating the service charge in the PGM1 or PGM2 modes.

If the percent rate is programmed as 0%, the machine does not print any service charge.

Key operation	Print
1500 2 300 3 ST TL	DPT- O2 15-00 DPT- O3 3-00 SUBTOTAL 18-00 SER-CHRG 1-62
	CASH 19.62

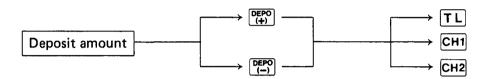
27. Deposit entries

Deposit refers to a prepayment on a guest account. It can be received in cash or by check.

You can make the deposit entry only when entering a guest check. It cannot be done during processing of a tendered amount.

A received deposit can be refunded by pressing the (F) key. You cannot attempt to refund an amount larger than the deposit balance.

Procedure



Key operation	Print
1 0 0 0 GLU	
5000 (th)	26/12/88 5:00P 123#1440
TL	*A* CLERK01 GLU#1000
NBAL	***PBAL 0.00
	CASH
	DEPOSIT 50.00
	***NEAL -50.00

Key operation	Print
1 0 0 0 GLU	
5 0 0 0 DEPO (-)	26/12/88 5:00P 123#1441
TL	*A* CLERKO1 GLU#1000
NBAL	***PEAL -50.00
	CASH
	DEPOS(-) -50.00
	***NBAL \ 0.00

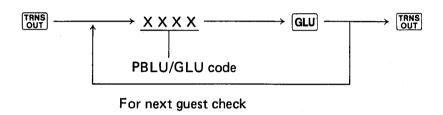
28. Transferring guest checks out/in

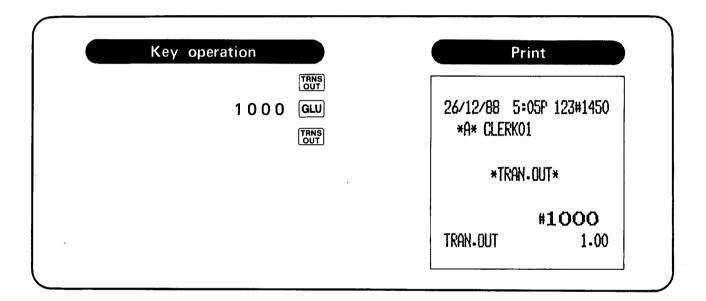
(1) Transferring guest checks out

At the end of a shift or whenever a clerk is relieved, one or more open guest checks can be transferred from the clerk to the open check file until responsibility for the check(s) is assigned to another clerk.

To do this:

Procedure

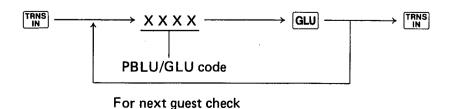


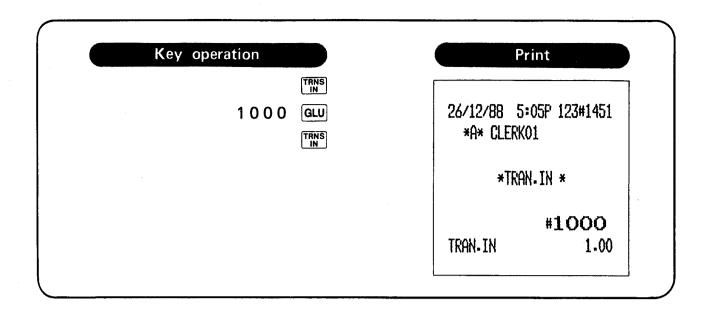


(2) Transferring guest checks in

When a second clerk is assigned responsibility for a guest check that has been transferred out, use this procedure:

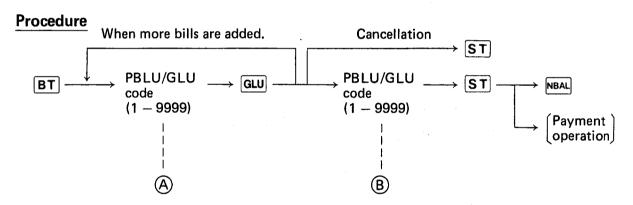
Procedure





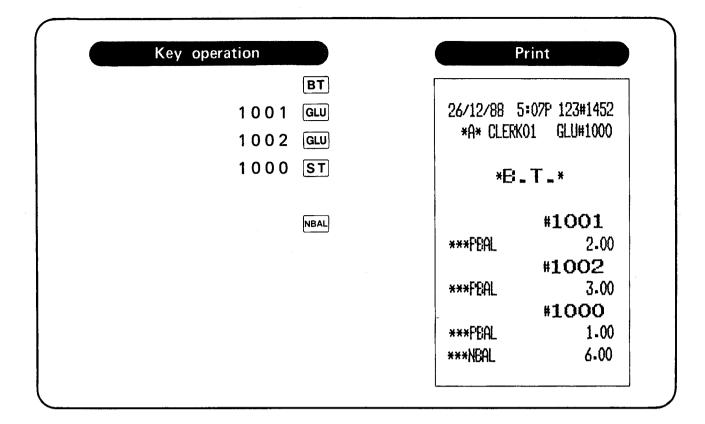
29. Bill totalizing

• The bill totalizing function is used to totalize multiple bills when, for example, a particular guest pays not only his or her bill but also the bills of other guests.



- Note 1: All (A) bills are added to (B) bill.
- Note 2: A maximum of 5 bills are available for (A).
- Note 3: The PBLU/GLU code of (A) must be in use.

 If the guest check(s) of (B) has already been handled by another clerk, the guest check(s) must has been made "Transferring out".
- Note 4: This function makes it possible to change the PBLU/GLU code of the bill. It requires that:
 - The current code is entered for (A) and
 - A new code is entered for (B).



30. Guest check receipt (only for the GLU system)

The details of the guest check can be printed on the receipt by pressing RCPT key. This function is used for two purposes;

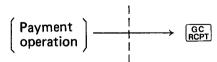
- Temporary inspection of the guest check
- Using the R/J printer instead of the slip printer

Procedure

(1) When the register is in the "out of transaction" state.

GLU code
$$\longrightarrow$$
 GC RCPT (1 – 9999)

- The register prints out the details temporarily.
- (2) When the transaction is finalized by a payment operation.



immediately after finalization

• When this operation is made, the register exits the compulsory slip printing mode, and the details of the guest check is cleared.

Note: The message text "G. C. RCPT" is printed on the guest check receipt.

Key operation

1000 GLU

100 1

1

NBAL

1000 RCPT

Print

26/12/88 5:17P 123#1473 *A* CLERK01 GLU#1000

G.C.RCPT

***PBAL 0.00 DPT.**O2** 8.00

DPT-03 7.00

2X 1.00 DPT-**O1** 2.00

***NEAL 17.00

Key operation

1000 GLU

1000 CH1

700 TL

GC RCPT

Print

26/12/88 5:18P 123#1477 *A* CLERK01 GLU#1000

G.C.RCPT

***PBAL 0.00 DPT-**O2** 8.00

DFT-**03** 7.00

2X 1.00

DPT-**O1** 2.00 SUBTOTAL 17.00

CHECK1 10.00

CASH 7.00

CORRECTION

1. Correction of the last entry (direct void)

If you make any incorrect department, PLU/subdepartment, percentage, deduction, refund, or received on account entry by mistake, you can void this incorrect entry by pressing the so key immediately after the incorrect entry.

Key operation	Prin	<u> </u>
1250 1		
\odot	DPT.O1	12.50
2 PLU/SUB	OPT-O1 W	-12.50
\bigcirc	PLU-0002	1.50
	PLU-0002 0	-1.50
600 3	DPT-03	6-00
%1		-10.00%
\bigcirc	%1	-0.60
328 4	%1 w	0.60
	DPT-04	3.28
28 ⊚1	(-)1	-0.28
\circ	(-)1 w	0.28
TL	SUBTOTAL	9-28
	CASH	9.28

2. Correction of the next-to-last or ealier entries (indirect void)

You can void any incorrect department, PLU/subdepartment, or refund entry made during a transaction by specifying it if you find it before finalizing the transaction (before making an amount tendered entry). This void function is applicable to plus department and PLU/subdepartment entries only, however.

Key operation	Pri	nt .
1310 1		
1 PLU/SUB	DPT-01	13.10
2	FLU-0001	24.00
	FLU-0002	1.50
1 O PLU/SUB	PLU-0001	w -24.00
1310 🐼 🚺	OPT.O1	w -13.10
	PLU-0002	w -1.50
TL	SUBTOTAL	0.00
	CASH	0.00

CORRECTION AFTER FINALIZING A TRANSACTION (AFTER GENERATING A RECEIPT)

When you need to void incorrect entries that are found after finalizing a transaction or cannot be corrected by direct or indirect void, follow this procedure in the VOID mode.

- (1) Press the key to put your register in the VOID mode.
- (2) Repeat the entries that are recorded on an incorrect receipt.

 This will result in all data for the incorrect transaction being removed from the machine's memory and the addition of the voided amounts to the VOID-mode totalizer.

Cancellation receipt Incorrect receipt 26/12/88 5:29P 123#1485 26/12/88 5:29F 123#1486 *A* CLERKO1 *A* CLERKO1 DPT.01 *VOID* 8.55 DPT-02 12.85 DPT.O1 8-55 SUBTOTAL 21.40 DFT.02 12.85 CASH 21.40 SUBTOTAL 21.40 21.40 CASH

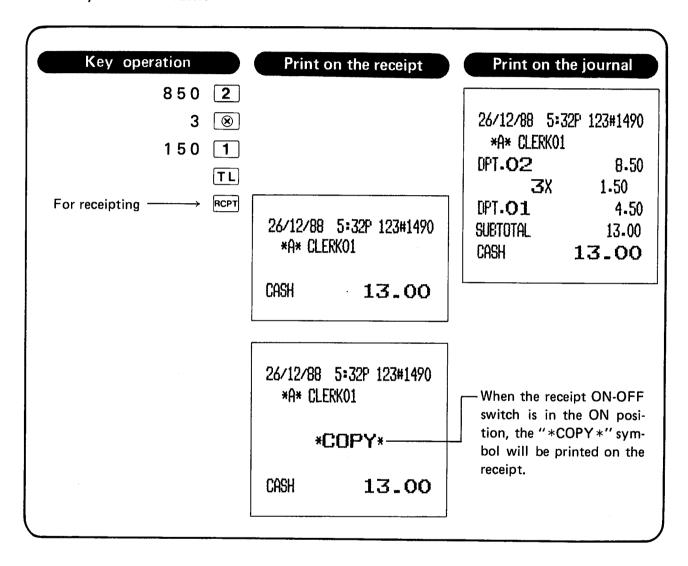
Note: Your machine leaves the VOID mode whenever a transaction is cancelled (i.e. finalized in the VOID mode). To void additional transactions repeat steps (1) and (2) above.

COPY RECEIPT PRINTING

If your guest wants receipt after you have finalized a transaction with the receipt ON-OFF switch at the OFF position (no receipting), press the RCPT key. This will make a copy receipt with the total printed.

Your register can print copy receipts regardless of the position of the receipt ON-OFF switch.

Consult your local dealer.



TRANSACTION FINALIZING (BY REMOVING THE CLERK KEY)

This function enables a transaction to be automatically finalized by removing the inserted clerk key when the real clerk key system has been selected.

Those transactions that have started with the entry of PBLU/GLU are automatically finalized when the "NBAL" key is pressed, and other transactions are handled as if the cash key had been pressed.

For the details of this function, consult your local dealer.

OVERLAPPED CLERK ENTRY

This function allows to switch from one clerk to another clerk and to interrupt the first clerk's entry. So the second clerk can do his entry in this mode. Interrupt handling is possible only in the overlapped clerk entry. For actual use of this function, contact your dealer.

Example:

Clerk A: Entry started

Clerk B: Clerk change (A to B), interrupt initiated

Clerk B: Transaction finished

Clerk A: Clerk change (B to A), entry restarted

Note: The overlapped clerk entry is not effective while the tendering sale is going on.

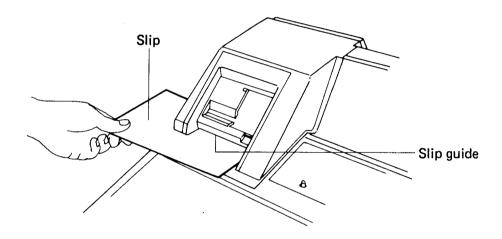
Key operati	ion	Comments	
1) Entry is started.	(A)	Clerk A is specified.	
	100 1		
	360 3		
	3		
2) Entry is interrupted.	(B)	Clerk B is specified.	
	3 ⊗		
	150 2		
	TL		
(3) Entry is restarted.	(A)	Clerk A is specified.	
	100 1		
	300 3		
	TL		

VALIDATION PRINTING FUNCTION

The machine can issue simplified receipt slips.

1. Validation slip setting and printing

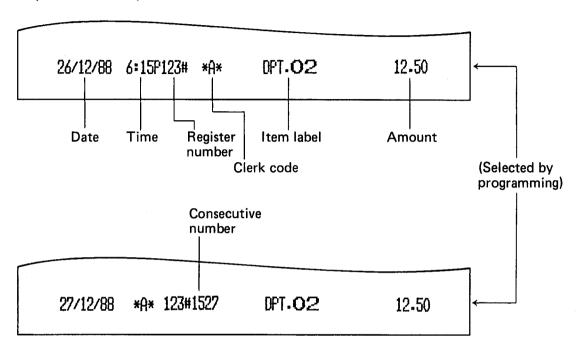
- (1) Insert the slip, with its printed face down, into the slip guide.
 Make sure the slip is pushed in enough deep and fully to the right. Otherwise, it may result in poor printing.
- (2) Now press the VP key. The validation printing will start.



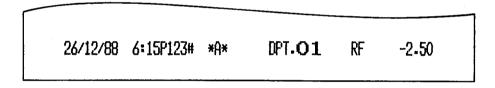
2. The validation printing can occur just after the following registrations

2-1. Validation printing of item entries

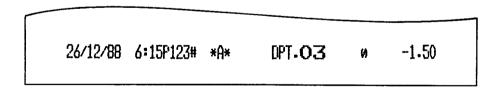
(1) Department entry



(2) Refund entry

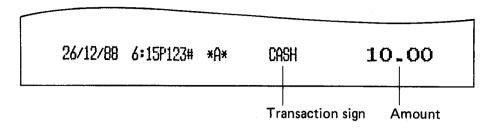


(3) Direct or indirect void



Note: Other item entries can also be printed. For details, consult your local dealer.

2-2. Validation printing after the finalization of a transaction



Transaction signs (programmable)

- (1) After completion of cash sale entry

 - When no change calculation occurs CASH
- (2) After completion of check sale entry

 - When no change calculation occurs CHECK1 or CHECK2
- (3) After completion of credit sale entry
 - At only credit sale CREDIT1 thru CREDIT8
 - At mixed tendering (check sale + cash sale) * * * TOTAL
- (4) After completion of PO entry * * * PO
- (5) After completion of RA entry * * * RA1 or * * * RA2

3. Validation slip specification

Make validation slips according to the following specification.

The use of any slips other than specified causes the printer to malfunction.

(1) Type of slip

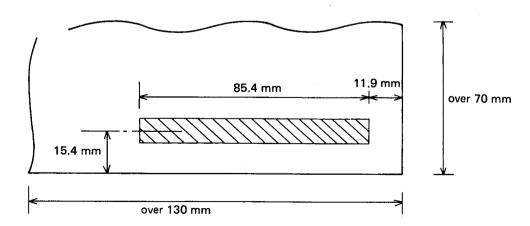
Normal paper, pressure-sensitive paper, or carbon paper

(2) Dimensions of slip

Size:

130 mm or wider, 70 mm or longer

Thickness: 0.07 - 0.15 mm



MANAGER MODE

The manager mode is used when management decisions must be made concerning register entry, for example, for overriding limitations and for other various non-programming management tasks.

You can also do all normal cash register operations in this mode.

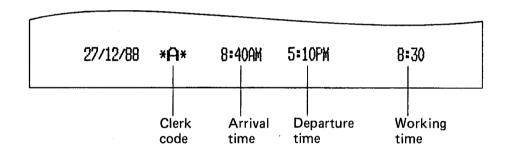
To enter the manager mode, insert the manager key into the mode switch and turn it to the MGR position. A cashier/clerk key must also be inserted into the cashier/clerk switch.

PRINTING OF THE EMPLOYEE ARRIVAL AND DEPARTURE TIMES

The register allows the operator to print the employee arrival and departure times, using the validation printing function.

- (1) Turn the mode switch to the "OP X/Z" position.
- (2) Put a card into the paper chute and perform the following key operation.

Sample printout

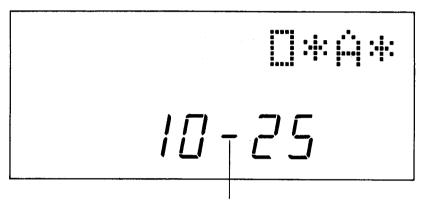


TIME DISPLAY AND AUTOMATIC UPDATING OF THE DATE

• Time display

When you need a time display, turn the mode switch to the OP X/Z position after the preceding transaction or operation is finalized.

Sample display of 10:25



This bar flashes every 0.5 second.

Automatic updating of the date

Once the internal clock unit is started at the correct time, it continues to run as long as the built-in battery is charged, and updates the date (day, month, year) properly.

READING (X) AND RESETTING (Z) OF SALES TOTALS

- Use the reading function (X) when you need to take a reading of sales information entered since the last resetting. You can take this reading any number of times. It does not affect the register's memory.
- Use the resetting function (Z) when you need to clear the register's memory.
 Resetting prints all sales information and clears the entire memory except for the GT1 thru GT3, reset count, and consecutive number.
- X and Z reports are printed on both the receipt and journal. To print the reports on a slip, it is necessary to press the SLIP key in place of the TL key.

Summary of reading (X) and resetting (Z) reports and the key

operations to obtain the reports

X1 and Z1 reports: Daily sales reports

X2 and Z2 reports: Periodic (monthly) consolidation reports $\begin{cases}
\text{In the OP X/Z mode: } Y = 0 \text{ (0 is not required.)} \\
\text{In the X1/Z1 mode: } Y = 1 \\
\text{In the X2/Z2 mode: } Y = 2
\end{cases}$

Item	Mode switch position	Job code	Key operation
General report (Full item report)	X1/Z1 or X2/Z2	Y00	Reading Y00 → • ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★ ★
Full clerk report	X1/Z1 or X2/Z2	Y40	$\begin{array}{c} \text{Reading} \\ \text{Y40} & \longrightarrow & & \otimes \\ \text{Resetting} \end{array}$
Individual clerk	X1/Z1		Reading Y41 \longrightarrow \longrightarrow \bigcirc \longrightarrow \bigcirc \longrightarrow Clerk code \longrightarrow TL Resetting
report	OP X/Z	Y41	Reading Y41 Resetting Resetting
Full cashier report	X1/Z1 or X2/Z2	Y50	Reading Y50 Resetting Resetting

	1		
Item	Mode switch position	Job code	Key operation
Individual cashier	X1/Z1		$\begin{array}{c} \text{Reading} \\ \text{Y51} & \xrightarrow{\bullet} & & \\ \text{Resetting} & & \end{array} \rightarrow \begin{array}{c} \text{Cashier} \\ \text{code} \end{array} \rightarrow \begin{array}{c} \text{TL} \\ \end{array}$
report	OP X/Z	Y51	Y51 — Resetting Reading Y51 — TL
Full department report	X1/Z1 or X2/Z2	Y10	Y10 → 🛞 → TL
Manual group report of dept.	X1/Z1 or X2/Z2	Y11	Y11 → ⊗ → Dept. key → TL
Individual group report of dept.	X1/Z1	Y12	$Y12 \longrightarrow \boxed{\textcircled{8}} \longrightarrow Group no. \longrightarrow \boxed{TL}$
Group total report	X1/Z1 or X2/Z2	Y13	Y13 → 🛞 → TL
Commission sales report	X1/Z1 or X2/Z2	Y31	Y31 → <u>⊗</u> → TL
Transaction report	X1/Z1 or X2/Z2	Y30	Y30→ (▼L)
PLU report by designated range	X1/Z1 or X2/Z2	Y20	Reading Y20 Resetting Bright Start PLU code Resetting Find PLU code TL
PLU report by assigned dept.	X1/Z1 or X2/Z2	Y21	Y21 → ® → Dept. code → TL
PLU report by individual group	X1/Z1	Y22	$Y22 \longrightarrow \boxed{\otimes} \longrightarrow Group no. \longrightarrow \boxed{TL}$
Full group PLU report	X1/Z1 or X2/Z2	Y23	$Y23 \longrightarrow \boxed{\otimes} \longrightarrow \boxed{TL}$

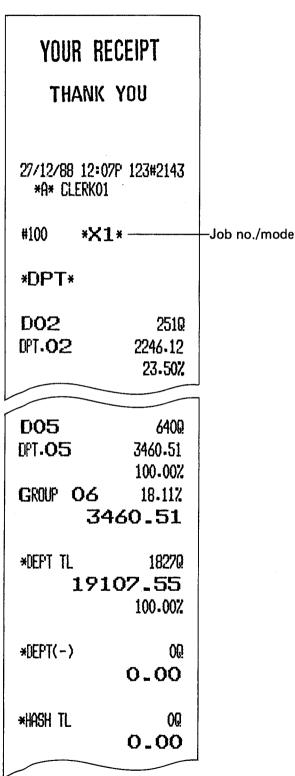
Item	Mode switch position	Job code	Key operation
PLU stock report	X1/Z1	Y24	$\begin{array}{c} Y24 \longrightarrow \textcircled{\$} \longrightarrow \begin{array}{c} Start \\ PLU \ code \end{array} \longrightarrow \begin{array}{c} \textcircled{\$} \end{array}$ $\begin{array}{c} End \\ PLU \ code \end{array} \longrightarrow \begin{array}{c} TL \end{array}$
PLU minimum stock report	X1/Z1	Y14	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Cash in drawer report for individual clerk or cashier	X1/Z1	Y33	Y33 → ⊗ → Clerk/Cashier code → TL
Cash in drawer report for full clerk/cashier	X1/Z1	Y34	Y34 → 🛞 → TL
Chief report	X1/Z1	Y32	Y32 → 🛞 → TL
Hourly report	X1/Z1	Y60	Reading Y60 Resetting Reading: Y60 Start* time (For individual time interval) For 0 entry End* time * Enter the time on the military time (24-hour) system.
GLU/PBLU report	X1/Z1	Y80	Reading $ \begin{array}{ccccccccccccccccccccccccccccccccccc$

Item	Mode switch position	Job code	Key operation				
GLU/PBLU report by Clerk	X1/Z1 or OP X/Z	Y81	Y81 → ③ ← Clerk code ← TL To take a reading report in the OP X/Z mode.				
GT report	X2/Z2	Y01	Y01 → ⊗ → TL				
Daily net report	X2/Z2	Y70	Y70 → ⊗ → TL #200 will clear the daily net totals.				
Stacked report 1 } Stacked report 5	X1/Z1 or X2/Z2	Y90 { Y94	Y90 Reading Y90 Resetting Reading Y90 Resetting				

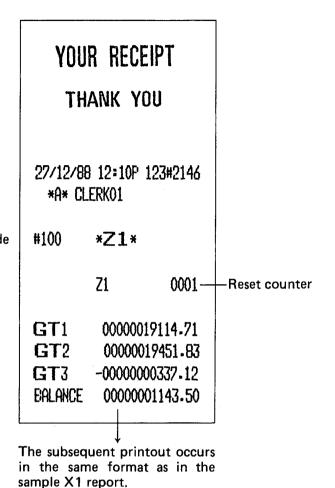
- SAMPLE REPORTS -

1. General report (Full item report)

• Sample X1 report



Sample Z1 report



To be continued on the next page.

	_	
TRANS.		
%2 (-)1 NET1	30 20	8.15 -2.10 19113.60
TAXABLE1 VAT 1 TAXABLE2 VAT 2 NON TAX VAT SET SER CHRG		16406.67 781.27 164.75 4.80 3108.00 104.00 944.52 20058.12
%1	60	-3-10
REFUND SMODE MGRØ VP CNT SLIP CNT NO SALE ***PBAL ***NBAL G.C.CNT	79 50 10 80 230 420 190 520 600 30 3670	31.15 17.20 104.48 99.50
GUEST TIME TTL	70 70	72.00

0					

-12
-82
. 30
-00
-00
-00
.70
-25
-80
.00
-00
-86
. 58
-55
-00
-53
-66
. 52
.70

2. Clerk report

(1) Individual clerk report

• Sample X1 report

YOUR RECEIPT THANK YOU 28/12/88 2:50P 123#3170 *A* CLERK01 #141 **1*

*CLERK *

A

19538-47

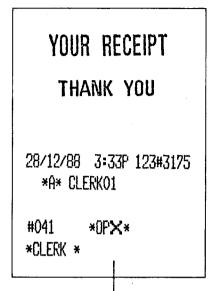
O1CLK# CLERKO1

ORDER TL

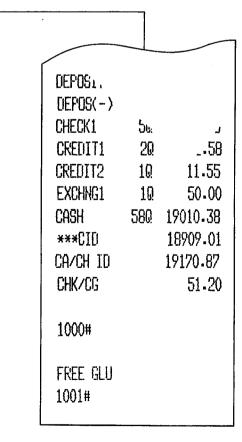
COM-SAL3	10	3000.00
COM-AMT3		210.00
NON COM	200	15615 .7 5
F-67F- T1		10745 48
PAID TL		19315-17
0-P		223.30
refund	70	31 - 15
ហ	50	17-20
₩ODE	10	104-48
***FEAL	520	
***NBAL	60Q	
G.C.CNT	36	
GUEST	3610	
TIME TTL	70	72.00
SER-CHRG		919 <i>-7</i> 7

To be continued.

• Sample OPX report



The subsequent printout occurs in the same format as in the sample X1 report.



(2) Full clerk report

• Sample X1 report

YOUR RECEIPT THANK YOU

27/12/88 11:05A 123#2086 *A* CLERK01

#140 ****1*** *CLERK *

The subsequent printout occurs in the same format as in the sample report shown in (1); and sales data for clerks print in this sequence.

3. Full department report

• Sample X1 report

YOUR RECEIPT THANK YOU 27/12/88 11:13A 123#2092 *A* CLERK01 #110 *X1* *DPT* DO2 243Q DPT-O2 2146-12 22-69%

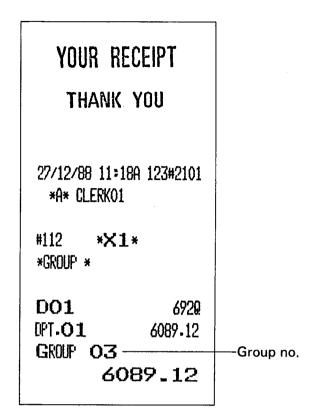
D05 01.05	640@ 3460-51
GROUP O	100.00% 5 18.21% 3460.51
*DEPT TL 19	18190 2002 - 55 100-00%
*DEPT(-)	90 O-OO
*HASH TL	0.00

4. Manual group report of dept.

• Sample X1 report

YOUR R THANK	
27/12/88 11=: *A* CLERKO	
#111 *X *DPT*	1*
DO1 DPT-O1	6920 6089-12 48-727
D03	1529 2948-25 23-592
D05 DPT-05	23-377. 6400 3460-51 27-69%
*DEPT TL 124	14840 14840 497_88 100-00%
*DEPT(-)	00. 0.00
*HASH TL	0.00
***TOTAL	65.75% 497 . 88 100.00% 007 . 55

5. Individual group report of dept.



6. Group total report

• Sample X1 report

YOUR RECEIPT THANK YOU 27/12/88 11:19A 123#2102 *A* CLERK01 #113 ***X1*** *GROUP * GROUP **Q1** 49-76% 9457.92 GROUP 03 32.04% 6089.12 GROUP 06 18-21% 3460.51 *DEPT TL 18190 19007.55 100.00% *DEPT(-) 00 0.00 *HASH TL 00 0.00

7. Commission sales report

• Sample X1 report

YOUR RECEIPT THANK YOU 28/12/88 3:33P 123#3173 *A* CLERKO1 #131 *X1* *SALES * COM-SAL3 10 3000.00 COM-AMT3 210.00 NON COM 260 16110.65 NET1 19113.60

8. Transaction report

• Sample X1 report

	REC ANK Y	
28/12/88 *A* CLE		123#3177
#130 *TRANS.*	*X1*	
*DEPT TL		36350 19107 . 55
%2	30	8-15
(-)1	20	-2.10
NET1		19113.60
TAXABLE1		16406-67
VAT 1		781-27
TAXABLE2		164-75
VAT 2		4.80
NON TAX		3108-00
VAT SFT		104.00
SER-CHRG		944-52
NET2		20058-12
%1	60	-3.10

To be continued.

	_	
P. 17 17 17 17 17 17 17 17 17 17 17 17 17		
REFUND	70	31-15
O	5Q	17.20
₩ODE	10	· · ·
MGRW	80	99.50
UP CNT	230	
SLIP CNT	420	
NO SALE	190	
***PEAL	520	
***NEAL	600	
G.C.CXT	30	
GUEST	3670	
TIME TTL	70	72.00
ORDER TL		20058-12
PAID TL		19834-82
0-P		223.30
TRAN-IN	20	2.00
TRAN-OUT	30	102.00
BILL BAL	10	100.00
***RA1	11Q	163.70
***RA2	60	10-25
***F()	130	112.80
DEPOSIT	10	120-00
DEPOS(-)	10	-120.00
CHECK1	60	361-86
CREDIT1	30	502.58
CREDIT2	10	11.55
EXCHNG1	10	50.00
Cash	620	19015-53

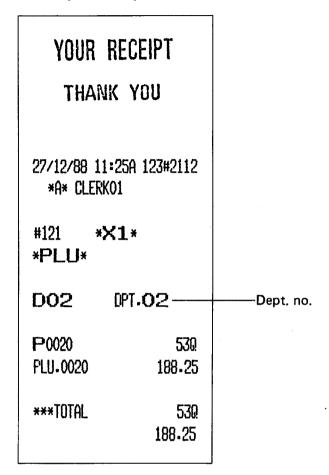
9. PLU report by designated range

• Sample X1 report

		-	_
	YOUR R	ECEIPT	
	THANK	YOU	
		24P 123#2183	
	A CLERKO		
	#120 *X *PLU*	1*	
		0001-0100 -	Range
	P0001	980	
	PLU-0001	2156.00	
	P0002	290	
	PLU-0002	42.00	
	P0003	170	
	FLU-0003	115-20	
	P0006	600 -	Time PLU
		12-50%	
	FLU-0006	2.25	
	P0010	60	
	PLU-0010	15-00	
i			J 1
	P0051	40	
	PLU-0051	11.40	
	120-001	44 IV	
	***TOTAL	3200	
	101112	3954.60	
		W/ W 1"WV	

10. PLU report by assigned dept.

• Sample X1 report



11. PLU report by individual group

YOUR RE THANK	
27/12/88 11:26 *A* CLERK01	SA 123#2116
#122 * × 1	*
PLU	•
P0003	170
FLU-0003	115.20
P0006	600
	12.50%
FLU-0006	2-25
P0020	530
PLU-0020	188-25
P0037	80
PLU-0037	32.50
P0051	40
PLU-0051	11-40
GROUP O1	1420
3	49.60

12. Full group PLU report

• Sample X1 report

YOUR RE	
27/12/88 11:2 *A* CLERK01	
#123 *X 1	l *
PLU	- ··
"I LO"	
P0003	170
PLU-0003	115.20
P0006	600
	12.502
PLU-0006	2.25
P0020	530
PLU-0020	188.25
P0037	80
PLU-0037	32.50
P0051	40
FLU-0051	11.40
GROUP O1	1420
သ	49.60

₽ 0001	980
PLU-0001	2156.00
₽ 0019	270
PLU-0019	72.00
GROUP 06	1250
23	228.00

13. PLU stock report

YOUR F	RECEIPT	
THAN	(YOU	
28/12/88 12: *A* CLERK(30P 123#2147)1	
#124 *X *STOCK.*	1*	
	0020-9999-	Range
P0020		
PLU-0020	118	
P0021		
PLU-0021	<i>7</i> 8	
P0022		
PLU-0022	238	
P0023		
PLU-0023	8 S	
P0024		
FLU-0024	178	
P0025		
PLU-0025	128	
P0026		
PLU-0026	-38	
P0098		
PLU-0098	ሰቦ	
P0099	08	
FLU-0099	0S	
P0100	งอ	
# \$7.13257		I

14. PLU minimum stock report

YOUR RI		
28/12/88 12:4 *A* CLERK01		
#114 *X1 *STOCK.*	L*	
	0020-9999 -	Range
P0020	15 %	
PLU-0020	115	
P0021	10M	
PLU-0021	<i>7</i> S	
P0022	30M	
PLU-0022	238	10
P0023	20M	
PLU-0023	88	
P0024	20M	
FLU-0024	1 <i>7</i> S	
P0025	30M	
PLU-0025	128	
P0026	35M	
FLU-0026	-35	
P0098	OM	
FLU-0098	08	
P0099	OM	
PLU-0099	08	
P0100	OM	
PLU-0100	08	

15. Cash in drawer report for individual clerk

YOUR RECEIPT THANK YOU

28/12/88 5:09F 123#3180 *A* CLERKO1

#133 *X1* *CID*

01CLK# CLERK01 *[] * ***CIO 18909.01 CA/CH ID 19170-87 CHK/CG

51.20

16. Full clerk cash in drawer report

YOUR REC	
28/12/88 5:10F *A* CLERKO1	° 123#3181
#134 *X1; *CID*	•
01CLK# CLERK01 ***CID CA/CH ID CHK/CG	*A* 18909.01 19170.87 51.20
02CLK# CLERK02 ***CID CA/CH ID CHK/CG	*E:* -0.35 99.65 5.50
***TOTAL ***CIO CA/CH IO CHK/CG	18908-66 19270-52 56-70

17. Chief report

YOUR RECEIPT THANK YOU

27/12/88 11:41A 123#2127 *A* CLERK01

#132 ***X1***
*CHIEF *

T-TABLE 3169-66 19017.95 / 6 61-55 T-GUEST 19017-95 / 309 T.BILL 333.65 19017.95 / 57 I-GUEST 1819 / 309 I-BILL 320 1819 / 57 AVE-ITEM 10.45 19007.55 / 1819

18. Hourly report

• Sample X1 report

YOUR R	ECEIPT	
THANK YOU		
27/12/88 11:- *A* CLERKO		
#160 *X: *HOURLY*	1*	
10:00AM	620 9701-66	
AVE-	156-48	
10:30AM	90	
	2974-40	
AVE.	330-49	
11:00AM	10	
	300.00	
AVE.	300.00	
11:30AM	1Q	
ALIE.	24.00	
AVE.	24.00	
12:00FM	00	
AVE.	0.00	
12:30PM	0.00 130	
12*3VFPI	171.45	
AVE.	13.19	
1:00FW	130	
a wvill	61.50	
AVE.	4-73	

19. GLU/PBLU report

• Sample X1 report

YOUR F	RECEIPT You
27/12/88 11: *A* CLERKO	:46A 123#2132 !1
#180 *X *GLU*	1*
1000#	* A *
***FBAL	1043-50
DEPOSIT	0.00
DEPOS(-)	0.00
***TOTAL	
***PEAL	1043.50
DEPOSIT	0.00
DEPOS(-)	0-00

20. GLU/PBLU report by clerk

• Sample X1 report

YOUR REC	
27/12/88 11:47A *A* CLERKO1	123#2135
#181 *X1* *GLU*	
01CLK# CLERK01 1000#	*A*
***FBAL	1043-50
DEPOSIT	0.00
DEPOS(-)	0.00
***TOTAL ***FEAL	1043.50
DEPOSIT DEPOS(-)	0.00 0.00
הבנחס/ - /	V+00

21. GT report

YOUR RECEIPT THANK YOU

28/12/88 1:01F 123#2161 *A* CLERK01

#201 *X2* *GT*

GT1 00000120563.12 GT2 00000122474.38 GT3 -00000001911.26 BALANCE 00000001243.50

22. Daily net report

YOUR F	RECEIPT K YOU
31/12/88 12: *A* CLERK(:24P 123#2170)1
#270 *> *DAYLY *	32 *
27/12	3090
28/12	19117.95 20
29/12	5742.72 10
30/12	12655-82 10
31/12	83234 . 40 10
	86332-47
***TOTAL	3140 207083-36

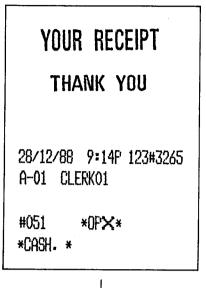
23. Cashier report

(1) Individual cashier report

• Sample X1 report

YOUR RECEIPT THANK YOU 28/12/88 9:12P 123#3263 A-01 CLERKO1 #151 *X1* *CASH. * 01CSR# CSRO 1 *A* PAID TL 1319.56 REFUND 1.50 20 U) 20 7.00 NODE 10 10.61 **GUEST** 1150 DEPOSIT 10 120.00 DEPOS(-) -120.00 10 CHECK1 70 210.00 CREDIT1 20 58.38 CREDIT2 20 11.35 EXCHNG1 10 50.00 CASH 260 1068-43 ***CI[] 1335.51 CA/CH ID 1545.51 CHK/CG 28-60

Sample OPX report



The subsequent printout occurs in the same format as in the sample X1 report.

(2) Full cashier report

• Sample X1 report

YOUR RECEIPT THANK YOU			
28/12/88 9:22F 123#3277 B-01 CLERK01			
#150 *CASH. *	*X1*		
01CSR# CS	RO1	*A*	
PAID TL		1319-56	
REFUND	20	1.50	
ហ	20	7.00	
₩00E	10	10-61	
GUEST	1150		
DEPOSIT	10	120.00	
DEPOS(-)	10	-120.00	
CHECK1	70	210.00	
CREDIT1	20	58.38	
CREDIT2	20	11.35	
EXCHNG1	10	50.00	
CASH	260	1068-43	
***CID		1335.51	
CA/CH ID		1545.51	
CHK/CG		28.60	

To be continued.

02CSR# CS PAID TL GUEST	жо2 50	*E:* 392-18
CHECK1 CREDIT1 CREDIT2 CASH	10 30 10 10	100.00 6.83 5.25 330.10
***CID CA/CH ID CHK/CG		280.10 380.10 50.00
***TOTAL PAID TL REFUND S MODE GUEST	20 20 10 1200	1711-74 1-50 7-00 10-61
DEPOSIT DEPOS(-) CHECK1 CREDIT1 CREDIT2 EXCHNG1 CASH	10 10 80 50 30 10 270	120.00 -120.00 310.00 65.21 16.60 50.00 1398.53
***CID CA/CH ID CHK/CG		1615-61 1925-61 78-60

24. Cash in drawer report for individual cashier

YOUR RECEIPT THANK YOU

28/12/88 9:15P 123#3267 A-01 CLERK01

#133 ***X1***
CID

01CSR# CSRO1 *A*
***CID 1335.51
CA/CH ID 1545.51
CHK/CG 28.60

25. Full cashier cash in drawer report

YOUR REC THANK Y	
28/12/88 9:52P A-01 CLERK01	123#3293
#134 *X1* *CID*	
01CSR# CSRO1	*⊟*
***CID	1637-15
CA/CH ID	1947.75
CHK/CG	42-85
02CSR# CSRO2	* : ::*
***CID	1601.65
CA/CH ID	2029.65
CHK/CG	104.60
***TOTAL	
***CID	3238-80
CA/CH ID	3977-40
CHK/CG	147-45

COMPULSORY CASH/CHEQUE DECLARATION

1. If your machine has been programmed for compulsory cash/cheque declaration, you must declare cash/cheque in drawer in advance according to the type of the declaration when you take cashier/clerk Z reports.

Use the procedure shown in 3 below for this declaration.

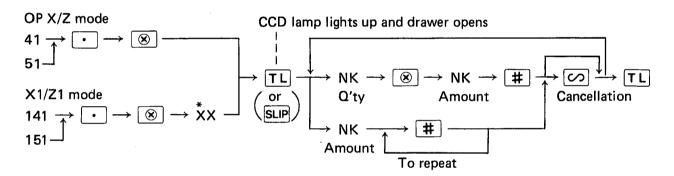
2. Types of compulsory cash/cheque declaration

- (1) Compulsive when individual cashier/clerk resetting is taken
- (2) Compulsive when full cashier/clerk resetting is taken

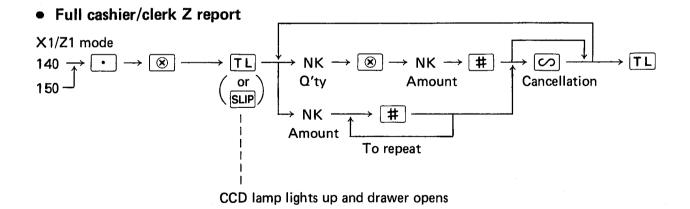
Note: Compulsory cash/cheque declaration is available in the above two types. You can choose either of these. Consult your local dealer for details.

3. Key operation

Individual cashier/clerk Z report



*XX: Cashier/clerk code

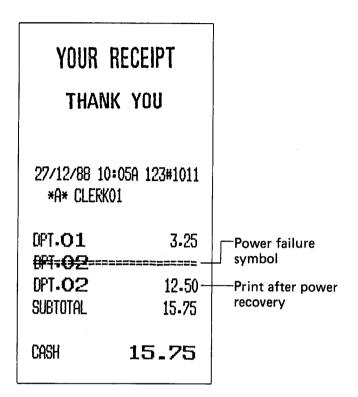


	YOUR RECEIPT THANK YOU 28/12/88 10:48P 123#3303 *E* CLERK02			
			123#3303	
	#141 CCD	*Z1*		
	50 9		10-00 500-00 - 1-00 9-00 - 0-10 -	Amount
	*CLERK *		V-1V	
	02CLK# CL		* E *	
-	ORDER TL NON COM		509.10 509.10	·
	PAID TL		509-10	
	GUEST	10 50	1.50	
	CHECK1	20	6.00	
	CASH	30	505.60	Cash in drawer to be obtained
	***CID CASH IS		503.10 - 509.10 -	Total of entered (declared) cash in drawer
	DIFFER		-6-00 -	Difference
	CA/CH ID CHK/CG		509 . 10 2 . 50	

IN CASE OF POWER FAILURE

When power is lost, the machine retains its memory contents and all information on sales entries.

- When power failure is encountered in register IDL state or during an entry, the machine returns to the normal state of operation after power recovery.
- 2. When power failure is encountered during a printing cycle the register prints "======"" and then carries out the correct printing procedure. (See the sample print.)



IN CASE OF PRINTER'S MOTOR LOCKING

If the printer's motor happens to lock, the printing stalls and intermittent bleeping starts. You must, first of all, the power switch off, cut the power supply, and repair the paper jumbling. And then, when switched on, the following format appears in the display.

" MOTOR LOCK "

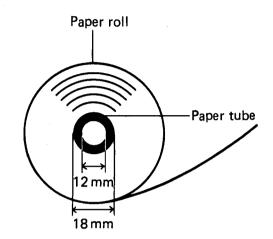
Feed the roll paper to the proper position and depress the CL key. The register carries out the power failure symbol and continues printing.

PAPER ROLL NEAR-END SENSING FUNCTION (ONLY FOR JOURNAL PAPER)

When the journal paper roll comes near the end or is not loaded, the machine senses this condition and sounds an alarm, displaying the error message "PAPER EMPTY". At this time, clear the alarm with the CL key and replace the paper roll as soon as possible.

The following entry can be made after clearing the alarm. However, since this function works each time one transaction is completed, the alarm sound will be emitted again as the following transaction is completed unless the paper roll is replaced.

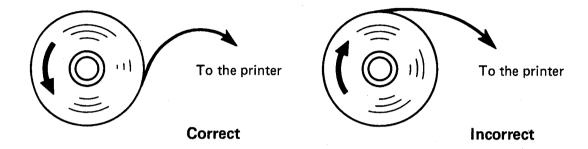
- The sensing position depends upon the size of the paper tube. Therefore, it is advisable to use paper rolls — whose paper tube is 18 mm in O.D. and 12 mm in I.D. — specified by SHARP.
- If the sensing occurs too early or late, contact your dealer.



INSTALLING AND REMOVING THE PAPER ROLL

Install the paper roll in the printer. Be careful then to set the roll and fold the paper end correctly.

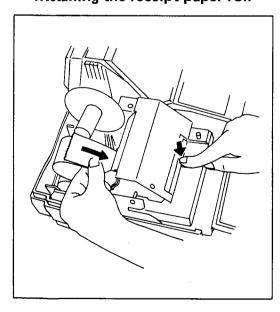
(How to set the paper roll)



(How to fold the paper end)



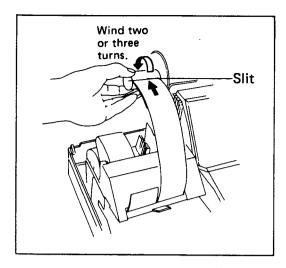
- 1. Installing the paper roll
- Installing the receipt paper roll



- Remove the printer cover.
 Set the paper roll correctly as illustrated above and drop it into the printer.
- (2) Press the paper roll release lever down and insert the folded paper end into the paper chute of the printer. Pull the paper end that has come out of the printer, holding down the lever.
- (3) Advance the paper by a required length by pressing the receipt paper feed key.

Note: Make sure the ink ribbon cassette has been mounted on the printer when installing the receipt paper roll.

Installing the journal paper roll

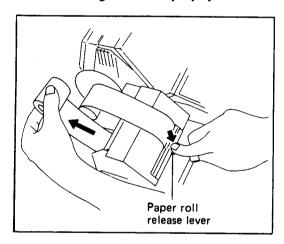


Set the journal paper roll in the same manner as the receipt paper roll. Insert the paper end that has come out of the printer, into the slit in the paper take-up spool, wind it two or three turns around the spool shaft, and set the spool on the bearing.

2. Removing the paper roll

When a red dye appears on the paper roll, it is time to replace the existing paper roll. Replace the paper roll with a new one.

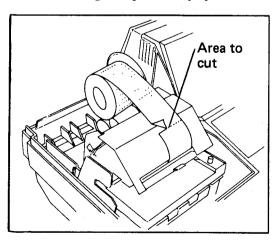
• Removing the receipt paper roll



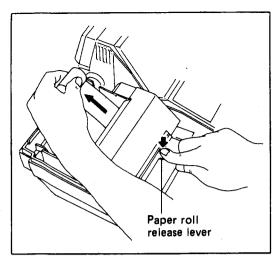
- (1) Remove the printer cover.
- (2) Press and hold the paper roll release lever down and draw out the existing paper roll from the paper roll location.

Note: Be sure to pull the roll in the direction of the arrow.

Removing the journal paper roll

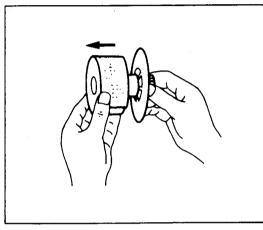


(1) Press the journal paper feed key to advance the paper by several lines and then cut it.



(2) Press and hold the paper roll release lever down and remove the existing paper roll from the paper roll location.

Note: Be sure to pull the roll in the direction of the arrow.



(3) Remove the paper roll from the take-up spool.

Request

Be sure to use paper rolls specified by SHARP.

The use of any other paper rolls than specified could cause paper jamming, resulting in register malfunction.

Paper specification

Paper width:

 $44.5 \pm 0.5 \text{ mm}$

Max. outside diameter:

83 mm

Weight:

 $52.3 - 64.0 \text{ g/cm}^2 (45 - 55 \text{ kg}/1000 \text{ sheets}/788 \times 1091$

 mm^2)

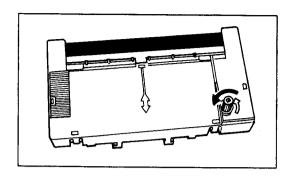
Quality:

bond paper

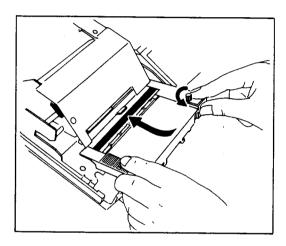
Paper tube:

18 mm

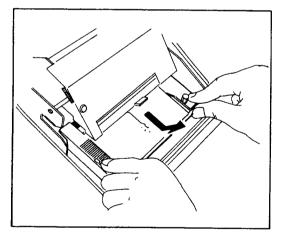
INSTALLING THE INK RIBBON CASSETTE



- (1) Remove the printer cover.
- (2) Rotate the knob on the ink ribbon cassette in the direction of the arrow to stretch the ribbon tight.



- (3) Place the ribbon at the front of the ink ribbon cassette under the paper roll release lever and set the entire cassette in the printer.
- (4) Rotate the knob two or three turns in the direction of the arrow to make sure it rotates smoothly. Also, make sure the ribbon is not folded.

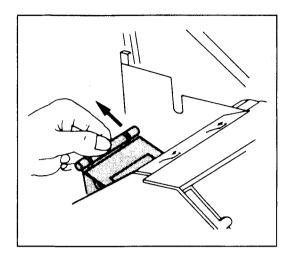


(5) To remove the cassette, pull it slightly and then lift it up.

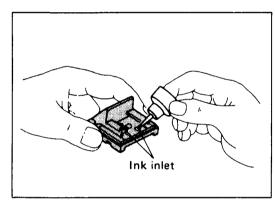
Request: Be sure to use ink ribbon cassettes specified by SHARP. The use of any cassettes other than specified could cause troubles in the printer.

INK REFILL

If the logo becomes too light, refill it with the supplied logo ink following the procedure given below.



- (1) Remove the printer cover.
- (2) Remove the store name logo by pulling it in the direction of the arrow.



- (3) Pour two or three drops of logo ink through the ink inlet situated on the back of the logo.
- (4) Replace the logo by the reverse procedure of removing.
- (5) Replace the printer cover.

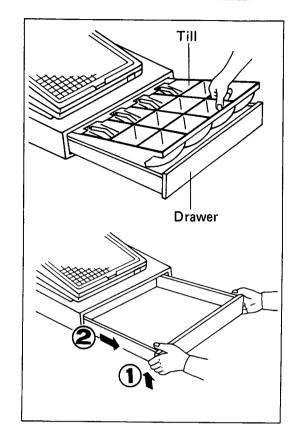
Precautions

- 1. The logo ink first gives a clear print 10 to 15 hours after being poured into the logo. Therefore, refilling after the daily business is most effective.
- 2. Overinking should be avoided. This will create a blurry print.
- 3. The ink is exclusively used for the logo.

 Do not apply the ink to the ink ribbon and ink roller.
- * When the supplied ink is exhausted, purchase the logo ink specified by SHARP.

REMOVING THE TILL AND THE DRAWER

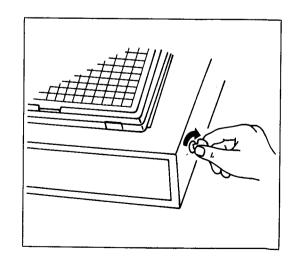
The till in the register is detachable. After closing your business for the day remove the till from the drawer and keep the drawer open. This will prevent money from being stolen. To detach the drawer, pull it foreward fully with the till removed, and draw it out by lifting it up.



Note: For the machines delivered to those sales area that Sharp Electronics (Europe) covers, the drawer is an option.

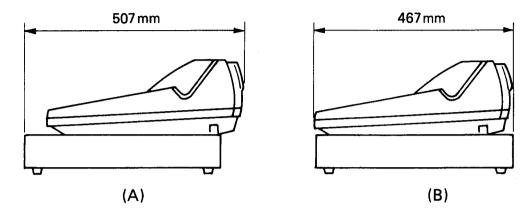
OPENING THE DRAWER BY HAND

The drawer automatically opens in the usual way, however, when power failure is encountered or the machine becomes out of order, open the drawer by inserting the supplied drawer lock key into the drawer lock on its right side and turning it 45 degrees clockwise. (See the figure at the right.)



MOVING THE DRAWER FROM THE REGISTER

When the machine is delivered, the drawer is set as illustrated in Figure (A). Where required, you are able to move the register frontward as illustrated in Figure (B).



Also, you are able to separate the drawer from the register. Please consult your dealer for details.

WARNING:

The separated drawers should be fixed to their surroundings, or somehow prevented from tipping when loaded to their full capacity with coin.

BEFORE CALLING FOR SERVICE

The malfunctions shown in the left-hand column below, labeled "Fault," do not necessarily indicate functional faults of the machine. It is therefore advisable to refer to the "Checking" shown in the right-hand column before calling for service.

Fault	Checking	
(1) The display won't be illuminated even when the mode switch is turned to any other position than " U ".	 Is power supplied to the electric outlet? Is the power cord plug out or loosely connected to the electrical outlet? Is the power switch in the "ON" position? 	
(2) The display is illuminated, but the whole machine refuses entries.	 Is the clerk key inserted? Is the mode switch set properly at the "REG" position? 	
(3) No receipt is issued.	 Is the receipt paper roll properly installed? Is there a paper jam? Is the receipt ON-OFF switch in the "OFF" position? 	
(4) No journal paper is taken up.	 Is the take-up spool installed on the bearing properly? Is there a paper jam? 	
(5) Printing is unusual.	 Is the ink ribbon cassette installed properly? Is the ink ribbon's life completed? 	

LIST OF OPTIONS

For your ER-4100/4110, the following options are available. For details, contact your dealer.

- 1. RAM memory board ER-33MB (with 32KB RAM)
 - The storage capacity can be increased up to 256KB in 32KB increment.
- 2. RAM memory chip model ER-01RA (32KB)
 - This option needs the ER-33MB RAM memory board.
- 3. Wide printer
 - This option needs the ER-41RS.
- 4. Remote drawer model ER-37DW3
 - West Germany model:
 - A maximum of four additional ER-37DW3s can be connected to your register.
 - U.K. or Australia model:
 A maximum of three additional ER-37DW3s can be connected to your register.
- 5. Till model ER-38CC and till cover model ER-38CV1/CV2/CV3/CV4/CV5
- 6. Spare mode switch models ER-31MD1/MD2/MD3/MD4/MD5
 - A total of 100 spare switches, 20 for each of the 5 different types are available.
- 7. RS232C interface model ER-41RS
- 8. Level converter model ER-67LC
- 9. 1.5 meters cable model ER-52CB
- 10. Slip printer model ER-52SP and interface ER-41PI
- 11. Remote printer model ER-01RP or IO-17KP1
 - The ER-01RP needs the ER-41MA or ER-41SL.
 - The IO-17KP1 needs the ER-41RS.
- 12. Auxiliary power supply battery unit ER-30BT
- 13. SRN interface option for the inline system
 - ER-41MA SRN-master control ROM and interface board
 - ER-41SL SRN-slave control ROM and interface board
- 14. ER-02FD
 - This option is a 3.5 inch floppy disk that is used for loading/dumping of preset data of the register.
 - This option needs the ER-52CB.

SPECIFICATIONS

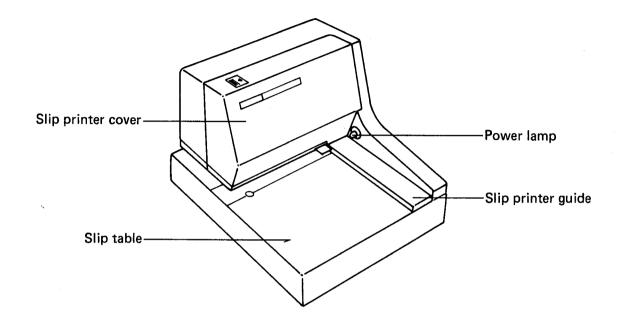
Model:	ER-4100/4110
External dimensions:	
West Germany model:	355 (W) x 467 (D) x 223 (H) (for ER-4100)
	355 (W) x 467 (D) x 223 (H) (for ER-4110)
U.K. or Australia model:	440 (W) x 507 (D) x 331 (H) (for ER-4100)
****	440 (W) x 507 (D) x 331 (H) (for ER-4110)
Weight:	
	8.5 kg (for ER-4100)/9.5 kg (for ER-4110)
U.K. or Australia model:	17.5 kg (for ER-4100)/18.3 kg (for ER-4110)
Power source:	AC local voltage ± 10%, 50/60 Hz
Power consumption:	Stand-by 30 W
	Operating 65 W
Working temperature:	0°C to 40°C
Electronics:	LSI (CPU), etc.
Built-in battery:	Ni-Cd rechargeable battery, memory holding time about
	1 month (with fully charged built-in battery, at room
	temperature)
Display:	Upper display: Dot-matrix fluorescent tubes (16 positions)
	Lower display: 7-segment display (11 positions)
Printer:	
Type:	2-station serial dot-matrix (7 x 9 font) printer
Printing speed:	2.8 - 3.0 lines/second
Printing capacity:	24 digits each for receipt and journal paper
Other functions:	1. Logo function
	2. Receipt ON-OFF switch, journal selective function
	3. Receipt and journal independent paper feed function
	4. Validation printing function
	5. Validation slip detector
	6. Paper-out sensor (only for journal paper)
	7. Automatic cutting of receipts with perforation
Ink ribbon:	Color: Purple (single color)
(Cassette type)	Width: 13 mm
	Length: 12 meters
Logo:	Dimensions of the printing face: 30 (W) x 20 (H) mm
Paper roll:	Width: 44.5 ± 0.5 mm
	Max. diam.: 83 mm
	Weight: $52.3 - 64.0 \text{ g/m}^2$ (bond paper)
Cash drawer:	4 slots for bills, and 8 for coins

Accessories:	Manager key	2	
	Submanager key	2	
	Operator key	2	
	Clerk key	6 kinds (A, B, D, E, H, K) x 2	
	Drawer lock key	2 (for U.K. or Australia model)	
	Printer cover lock key	2	
	Ink ribbon cassette	1	
	Standard logo	1 (mounted on the main body)	
	Logo ink	1 (5 cc)	
	Paper roll	2	
	Spool	1	
	Key sheet for the		
	standard keyboad layout	1 (mounted on Supplied	
	, ,	the main body) — with the	
	Blank key sheet	1 ER-4100	
	Key sheet for programmin	ng 1	
	Dust cover	1 sheet	
	Instruction manual	1 copy	

^{*} Specifications and appearance subject to change without notice for improvement.

SLIP PRINTER (OPTION) MODEL ER-52SP

1. Physical characteristics



2. Slip

2-1. Selecting slips

Slips used for the slip printer must conform to the following standard. The use of slips that do not meet the standard causes problems, such as difficult seating of them or blurry printing.

(1) Paper specifications

- Ordinary paper
- Thickness: 0.09 0.25 mm

(2) Form

Ordinary paper + carbon paper, or printing paper.

(3) Dimensions

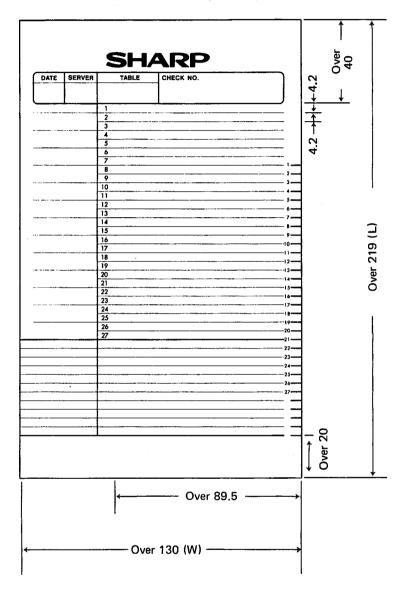
Width: 100 to 210 mm Length: 80 to 297 mm Observe the dimensions shown in illustration at right. For details, contact your

For details, contact your dealer.

(4) Numbering

Print numbers as shown in illustration at right. The numbers printed in the center indicate the serial numbers of printing lines, and the numbers at the right side are used to line up the slip in order to print on the proper lines. The number 1 is printed on the 7th line from above as shown in illustration at right, and the subsequent numbers are printed on the followunderlines in ing quence.

Format of recommended slip Unit: mm



2-2. Use of slips available in the market

Select slips which have dimensions specified in (1) and (3) of item "2-1. Selecting slips" above.

3. Printing position, alignment of slips

3-1. At the use of recommended slips

Hold a slip in parallel to the slip printer guide, and align number 1 at the right side of the slip with the printing line mark guide when beginning the printing from the 1st line.

3-2. Using other slips that are available on the market

Hold a slip in parallel to the slip printer guide, and align the printing area (line) with the printing line mark of the slip table.

- The following method is also available.
- (1) Cut the line numbers (part G) from the left side of the slip as shown in illustration at right.
- (2) Insert another slip (with part G not cut off), and align the center of first printing line with the printing line mark on the slip table as to where you want the 1st line to print. Make notation on the slip table where the bottom of the slip is located.
- (3) Turn the part G cut off in step (1) above upside down, and glue it on the slip printer guide. When gluing the part G, align number 1 with the notation that was made on the slip printer guide in step (2) above which designates where the bottom of the slip is to be positioned in order to print on the 1st line of

1110 Printing line mark on the table Printing line mark guide Sliptable Slip printer guide Turn upside down. Or make separately. Part G 1110 And glue. Number 1 of part G Bottom of slip

the slip. (If possible, make your own guide with the number right side up for easier reading.)

(4) Perform the alignment for two or three lines and print to make certain part G is properly made and glued on the proper position.

4. Programming

Program the initial line spacing (0 - 64 lines), the maximum number of slip print lines, and the slip printing counter.

5. Operation

5-1. Printing transaction details on a slip

Two different slip printing systems are available. It depend on how your register has been programmed which of these is used.

These are the buffered slip system and the real-time slip system.

(Consult your local dealer for this selection.)

• Buffered slip system:

All entries made during a transaction are temporarily stored in memory and then printed when the SLIP key is pressed after the transaction is finalized.

When the slip printing is demanded with "SLIP" message, or when the slip printing is optionally performed:

< Procedure >

- Perform the registration.
- Insert a slip in the slip printer.
 Hold the slip in parallel to the guide, and advance the slip deep into the slip printer until it touches the holder.
- ③ Press the SLIP key. (Starting slip print)

• Real-time slip system:

The slip printing will occurs whenever the item entries are made.

In case of "compulsory slip printing", if a slip has already been inserted in the slip printer, the slip printing starts automatically.

When the slip printing is demanded with "SLIP" message, or when the slip printing is optionally performed:

< Procedure >

- 1 Insert a slip in the slip printer.

 Hold the slip in parallel to the guide, and advance the slip deep into the slip printer until it touches the holder.
- 2 Press the SLIP key. (Starting compulsory slip print)
- 3 Perform the registration. (Starting optionally slip print)

Key operation

1000 NC

3500 2

2700 3

TL

SLIP

Print

30/12/88 6:3 *A* CLERK01	
***PBAL	0.00
0PT-02	35.00
DPT.03	27.00
SUBTOTAL	62.00
TAXABLE1	62.00
VAT 1	2.95
NET 1	59.05
CASH	62.00

Sample printout

30/12/88	6:32P 123#1154	*A* CLERK01	GLU#1000
		***PBAL	0-00
	DPT-02		35.00
	DPT-03		27.00
	SUBTOTAL		62-00
	Taxable1		62.00
	VAT 1		2.95
	NET 1		59.05
		Cash	62.00

Notes: Slip detectors

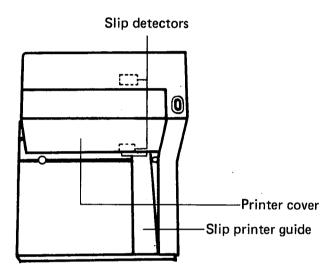
If the slip advances inward and is out of contact with the slip detectors in the course of printing, an error occurs.

In this case your register displays the error message "INSERT SLIP" and delivers an error alarm sound.

Meanwhile, the slip printer prints "NEXT P." on the slip and release its paper holder.

If such a situation occurs, clear the error by pressing the CL key, insert a new slip, and press the SLIP key.

The slip printer prints a header line (date, time, register no., consecutive no., and cashier/clerk code) on the slip and then prints the information which was not yet printed at the time of the error.

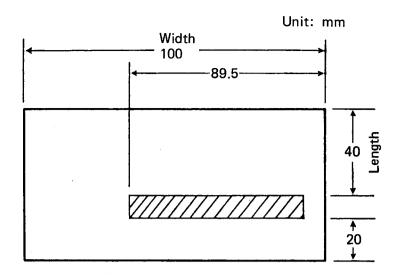


5-2. Validation printing

Connecting a slip printer to your register prevents its built-in printer from performing validation printing. Carry out validation printing by use of the slip printer.

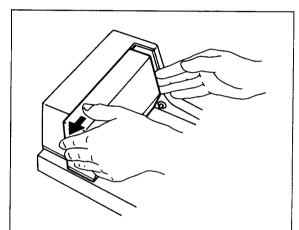
After item entries or finalized transaction hold a validation slip to the slip guide, align with the printing line mark the area to print the information on, then press the VP key. This achieves validation printing.

Validation paper specifications and printing position
 Paper quality and thickness of validation slips must be the same as those of common slips. Observe the dimensions shown in the illustration below. The hatched area is printing space.

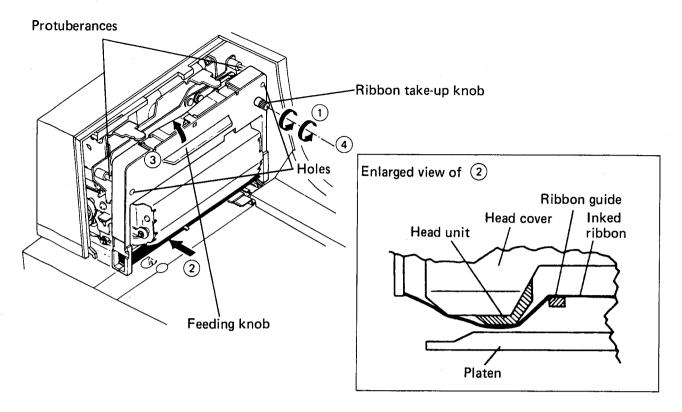


6. Mounting the ink ribbon cassette

- (1) Remove the slip printer cover by pulling it to the left.
- (2) When the printer head stays on the right, shift it to the left in either method (1) or (2).
 - ① Set the mode switch to the "PGM1", "PGM2", or "OP X/Z" position, and push SLIP key.
 - 2 Set the mode switch to the position "REG" and push TL key and then VP for validation printing.



- (3) For safety, unplug your register.
- (4) Turn the feeding knob of the ribbon cassette with your finger as indicated in the illustration and rotate the ribbon take-up knob in the direction of the arrow 1 to tense the ink ribbon.
- (5) Set the cassette so that the two protuberances on the printer fit into the two holes in the cassette.
- (6) Run the ink ribbon between the head and the ribbon guide as indicated by the arrow ②, and then, set the ribbon case to the ribbon unit as indicated by the arrow ③.

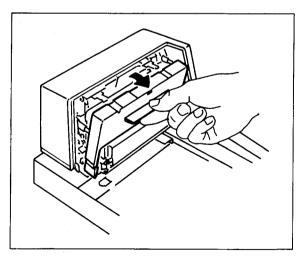


- (7) After setting the ribbon cassette, rotate the ribbon take-up knob in the direction of the arrow (4), and check if the inked ribbon is not twisted or folded.
- (8) Close the slip printer cover.

7. Replacing the ink ribbon cassette

When printing becomes faint, replace with a new slip printer ink ribbon cassette specified by SHARP.

- (1) For safety precautions, unplug your register. Remove the slip printer cover by pulling it to the left.
- (2) Remove the existing ink ribbon cassette. Hold the knob at the center and pull the cassette toward you. (See the figure at right.)
- (3) Install a new ink ribbon cassette according to the procedure given in "Mounting the ink ribbon cassette" and check if the inked ribbon is not twisted or folded.
- (4) Close the slip printer cover.

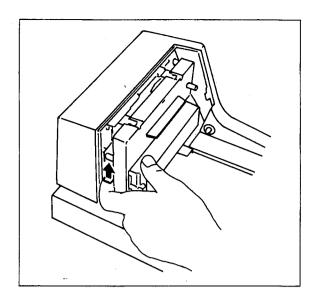


8. Before calling for service

The malfunctions shown in left-hand column below, labeled "Problem", do not necessarily indicate a malfunction of the slip printer. It is therefore advisable to refer to the "Check" shown in the right-hand column before calling for service.

Problem	Check
1. Any slip cannot be inserted.	 Does the thickness of the slip satisfy the standard? Is the printer in the "release" condition? If the printer is not in the "release" condition, perform either of the following operations. Remove the printer cover, push up the manual release lever to put the printer in the "release" condition, and then insert a slip. (See the figure below.) Turn the mode switch of your register to the PGM1, PGM2, or OP X/Z position and press the SLIP key to put the printer in the "release" condition. Then insert a slip. Look for paper jam.
2. The slip swerves at printing.	Does the slip meet the specification?
3. No printing	 Is the slip inserted properly or is it in contact with the detectors? No faulty operation? Is the ink ribbon cassette fitted properly? Does the ink ribbon lack enough ink?

 When you call your local dealer for service, please inform of the product name (SLIP PRINTER), model (ER-52SP), and details of malfunction.



9. Specifications

Model: ER-52SP

External dimensions: $219(W) \times 267(D) \times 172(H)$ mm

External dimensions of slip table: 156 (W) x 253 (D) mm

Weight: 4 kg

Operating temperature: 0°C to 40°C

Printing system: Serial dot-matrix (7 x 9 font) printer

Printing speed: Approx. 3.0 lines/sec.

Print column capacity: 53 columns

Allowable dimensions of slip: $100(W) \times 80(L) \text{ mm to } 210(W) \times 297(L) \text{ mm}$

Allowable thickness of slip: 0.09 to 0.25 mm

Ink ribbon: Housed in an endless cassette, purple in color

Accessories: Ink ribbon cassette 1 piece

Test slip paper 2 sheets

MC-Service